



County Borough of Southampton.

---

# ANNUAL REPORT

ON THE

## HEALTH OF SOUTHAMPTON

### FOR THE YEAR 1915,

BY

**R. E. LAUDER,** M.D., F.R.C.S., Ed., D.P.H.,

*Medical Officer of Health for the County Borough and Port of  
Southampton.*

*Medical Superintendent of the Borough and Port Fever  
Hospitals.*

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Hampshire Advertiser Company, Limited, 45, Above Bar.

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COUNTY BOROUGH OF SOUTHAMPTON.

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**ANNUAL REPORT OF MEDICAL OFFICER OF HEALTH.**

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TO THE MAYOR, ALDERMEN, AND COUNCILLORS.

MR. MAYOR AND GENTLEMEN,

I have the honour to submit for your information, in accordance with the order of the Local Government Board, my Annual Report upon the condition of the public health, and a record of the administrative work carried out by the Health Department for the year 1915, together with the vital statistics of the Borough. A summary of the work done and action taken under the Factory and Workshops Act, 1907, the Midwives' Act, 1902, and the Housing, Town Planning, etc., Act, 1909, is also included in the Report.

Summaries are also included in the Report of the general public health work carried out in the Borough, and the action taken in respect of infectious disease and the measures adopted for the prevention and control of Tuberculosis.

The health of the Borough was satisfactory during the year.

A large amount of work was carried out during the year for the Military Authorities, chiefly in connection with the treatment of cases of infectious disease in the Isolation Hospital from neighbouring camps and of cases landed in the Port. Much disinfection was also carried out.

I am, Mr. Mayor and Gentlemen,

Your obedient Servant

R. E. LAUDER,

Medical Officer of Health.

# REPORT.

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## STATISTICAL SUMMARY FOR THE COUNTY BOROUGH OF SOUTHAMPTON.

Acreage ... ..	4,604
„ (including tidal water and foreshore) ...	5,817
Civil Population (estimated 1st July, 1915) ...	117,349
Number of Persons per acre ... ..	25.5
Number of Inhabited Dwelling Houses (Census, 1911) ... ..	20,275
Rateable Value (October, 1915) ... ..	£658,491
Births ... ..	2,707
Birth Rate ... ..	21.9
Deaths ... ..	1,728
Death Rate ... ..	14.78
„ corrected for age and sex distribution	14.15
„ from Zymotic Diseases... ..	1.33
Average Death Rate (10 years, 1905—1914) ...	13.76

## POPULATION.

Owing to the continuance of the War the usual method of estimating the local population on the preceding intercensal increase has become unreliable and misleading. The majority of men of military age have been drafted to military training centres or sent abroad, and there has been a large migration both of the male and female population from one area to another.

Under these circumstances the Registrar-General has utilised the information obtained in connection with the National Registration Act, 1915, to revise the estimated population of the various districts.

These estimates based on the National Register refer only to the civil population, and exclude the military population in each district.

The following is the method by which the estimates of civil population have been derived from the National Register returns:

The ratio of the total population less the males aged 15—65 years to the number of females aged 15 to 65 years at the date of the census was calculated for each administrative area, and this ratio was applied to the number of females on the National Register; the resulting product plus the number of males aged 15 to 65 years on the National Register was taken to be the number of the civil population of the district. Small adjustments were necessary for the population in Institutions and also in order to make the sum of the estimates for the several districts equal to the estimate for the country as a whole made on the same basis.

The estimated civil population of Southampton based on this method gives a total of 117,349 at the date of taking the National Register, 14th August, 1915.

This total is 1663 below that of the census of 1911 (119,012), and 8,151 less than the total population estimated in the usual method to the middle of 1915, namely 125,500.

The population used for the calculation of birth rates is that estimated to the middle of 1914, namely 123,948.

Notwithstanding the unsettled conditions that have existed, the number of unoccupied houses in the Borough has decreased compared with the previous year. An enumeration is made by the Health Department at the end of each year of the unoccupied dwelling-houses in the Borough. The total number unoccupied was returned as 267, which is a decrease of 134 compared with the year 1914.

Of the 267 houses returned as vacant in 1915, only 34 were under a rental of £26 a year, the remainder (233) being of an estimated rental of £26 or over.

## METEOROLOGY.

The weather conditions experienced in 1915 were generally wet and cool, with sunny, dry intervals.

January and February were wet and mild. March and April were dry and cool. July was unsettled and wet, and December, as in the previous year, was very wet and mild, 8.1 inches of rain being recorded. (See Meteorological Table, page 108).

The total rainfall during the year was 41.7 inches, being nearly 8 inches more than the average of the previous 100 years.

The mean temperature, 50.4 degrees, was 0.7 below the average.

The sunshine recorded amounted to 1,629 hours, being less than the average. The sunniest month was May, with 229 hours.

In the annual summary for the year 1915 issued by the Meteorological Office, the mean temperature of towns on the South Coast is given as:—

Penzance	...	52.3	Brighton	...	...	50.3
Plymouth	...	50.8	Eastbourne	...	...	50.1
Portsmouth	...	50.8	Worthing	...	...	50.0
Falmouth	...	50.5	Bournemouth	...	...	49.6
Southampton	...	50.4	Dover	...	...	48.9

## BIRTHS.

The birth-rate for the year amounted to 21.91 per 1,000 of the population. This is a decrease of 1.96 of the rate recorded last year, and is 2.97 below the average of the previous 10 years.

The number of births registered in the Borough amounted to 2,707 during the year, being a decrease of 242 compared with 1914. The largest decrease occurred in Portswood Ward, the birth-rate being 5.7 below that of 1914. The decreases in the birth-rate in the old civil parishes was: Town 1.5, Portswood 4.1, Shirley 1.4.

The highest birth-rates recorded were in Shirley (29.5) and Northam (27.8), and the lowest Banister (14.3) and Bevois (17.6).

Of the 2,707 births registered, 1,368 were males and 1,339 females, the proportion of males to females being 1,022 males to every 1,000 females. The following is the proportion in each of the preceding 10 years.

Year.	Proportion of Male to Female Births.			Year.	Proportion of Male to Female Births.		
1905	...	992	...	1910	...	1120	
1906	...	1054	...	1911	...	1008	
1907	...	1090	...	1912	...	1059	
1908	...	1072	...	1913	...	1023	
1909	...	1059	...	1914	...	1034	

The average for the 10 years being 1050, and the average for England and Wales 1039.

The illegitimate births registered amounted to 116 compared with 104 in the previous year.

This number is equal to a rate of 0.94 per 1,000 of the population, and to 43 illegitimate births to every 1,000 births registered. The average for England and Wales for three years, 1911—1913, was 1.0 and 43 respectively.

## DEATHS.

The death-rate of the Borough for the year amounted to 14.78 per 1,000 of the population. This rate is calculated on the estimated civil population (117,349) as described under the heading "Population," and does not include the deaths of soldiers. This death-rate is 0.89 higher than in the preceding year, which is accounted for by being calculated on a lower population than in 1914.

There was an increased mortality from influenza and bronchitis, owing to an unusual prevalence of these diseases in the early spring, and an increase in the number of deaths of children between 1 and 5 years of age from measles and whooping cough.

In comparing the death-rate with other towns and with England and Wales the age and sex constitution of the population has to be taken into account, and the Registrar-General supplies to each of the large towns a factor by which the general death-rate should be multiplied to make it comparable with that of England and Wales. This gives a corrected death-rate for each town of what it would be if the age and sex distribution of the population were the same as that of England and Wales. The factor for correction for Southampton is 0.9574, which gives a death-rate corrected for age and sex distribution of 14.15.

The statistics for the year 1915 relate to the 52 weeks ended 1st January, 1916. During this period 1,830 deaths were registered in the Borough, being an increase of 38 over the total registered in 1915.

Of this total 154 were deaths of non-residents, including 67 deaths of soldiers in the various military hospitals and Camps in the Borough. Fifty-two deaths of residents of the Borough occurred in other Districts, giving a corrected total of deaths belonging to the Borough of 1,728, which is 12 higher than in the preceding year.

As in the previous year the death-rate in the Municipal Wards was lowest in St. Denys Ward and highest in Town Ward.

The death-rate in each of the Municipal Wards of the Borough per 1,000 of the population was:—

St. Denys	...	11.1	Shirley	...	...	14.5
Freemantle	...	12.7	Newtown	...	...	15.5
Portswood	...	13.3	Trinity	...	...	15.6
Banister...	...	13.6	Northam	...	...	16.5
All Saints	...	13.7	St. Mary's	...	...	17.4
Bevois	...	13.7	Town	...	...	18.1
Millbrook	...	13.7				

The causes of death in each of the Municipal Wards are shown in Table 9 (page 99). Other statistics relating to the Municipal Wards are given in a table on page 10.

The death-rate in each of the old civil parishes of the Borough was:—

Town	...	...	...	...	...	16.5
Portswood	...	...	...	...	...	12.5
Shirley	...	...	...	...	...	13.3

The Borough is now united into one Civil Parish, and is divided into two registration districts—east and west—the dividing line being the main street from the Town Quay to the top of the Common.

The death-rate for England and Wales during the year 1915 was 15.1, and for the 96 great towns, 15.6 per 1,000 of the population.

Of the 1,728 deaths belonging to the Borough 919 were males and 809 females, giving a proportion of 1,136 male deaths to every 1,000 females.

Excluding deaths of soldiers, a total of 1,763 deaths were registered in the Borough, 569 of which occurred in public institutions, and is equal to 32.3 per cent. of the total deaths. The percentage in England and Wales was 22.3, and in the 96 large towns 28.8. The institutions in which the deaths occurred were: Isolation Hospital, 57; Royal South Hants and Southampton Hospital, 160; Parish Infirmary, 269; Workhouse, 56; Shirley Children's Hospital, 6; Free Eye Hospital, 1; Nursing Institutions, 20. Forty-one deaths also occurred in Military Hospitals in the Borough.

**TABLE A.**

Showing Estimated Population, Birth Rates, Infantile Mortality, and Death Rates in each of the Municipal Wards for the year 1915, together with the Averages for the four years 1911-1914.

Ward.	Esti- mated popu- lation Middle of 1915.	1915.					Averages, four Years 1911-1914.				
		Birth Rate	Infantile Mortality per 1,000 Births.	Death Rate from Zymotic Diseases.	Death Rate from Phthisis.	Death Rate from All Causes.	Birth Rate	Infantile Mortality per 1,000 Births.	Death Rate from Zymotic Diseases.	Death Rate from Phthisis.	Death Rate from All Causes.
1. Town	10,896	23.6	98.5	0.73	3.13	18.1	24.3	132.1	1.29	2.32	18.6
2. St. Mary's	11,855	22.7	135.9	2.03	2.12	17.4	24.0	117.7	1.45	1.52	15.6
3. Northam	10,844	27.8	99.7	2.59	1.76	16.5	30.5	104.1	1.79	1.62	15.0
4. Trinity	8,474	23.0	96.2	1.90	1.54	15.6	25.4	92.1	1.27	1.32	14.7
5. Newtown	7,813	18.1	46.4	0.90	0.77	15.5	20.4	66.9	0.72	1.02	12.4
6. All Saints	8,813	19.4	79.1	0.57	0.91	13.7	17.9	65.5	0.61	1.46	13.2
7. Bevois	7,764	17.6	82.8	0.64	1.16	13.7	20.3	84.2	0.85	1.09	13.2
8. Banister	7,329	14.3	128.4	0.41	0.95	13.6	15.2	62.0	0.27	0.67	10.6
9. Freemantle	7,552	18.1	75.9	1.06	0.40	12.7	20.5	87.6	1.09	1.10	13.3
10. Millbrook	9,365	25.2	68.5	1.39	1.30	13.7	27.7	120.4	1.75	1.46	13.2
11. Shirley	9,642	29.5	69.0	2.08	1.25	14.5	29.0	91.6	1.37	1.11	12.8
12. Portswood	8,676	18.3	85.3	1.39	1.39	13.3	24.4	87.9	1.19	1.55	12.1
13. St. Deny's	8,326	21.6	53.2	0.84	1.20	11.1	24.1	100.7	1.37	1.04	12.2
Totals	117,349	21.9	87.55	1.33	1.45	14.78	23.7	97.7	1.19	1.38	13.8

## INFANTILE MORTALITY.

The deaths of infants under one year of age recorded during the year amounted to 237, which is equal to a rate of 87.6 per 1,000 births registered during the same period.

This rate, 87.6, is lower than that of the previous year, which was 89.9. In 1913 the rate was 81.5, and in 1912 84.4.

The infantile mortality rate in 1915 in England and Wales was 110, and in the 96 great towns (including London), 116.

The number of deaths of male infants amounted to 132, compared with 105 females. The sex mortality of infants under one year of age per 1,000 births of each sex for the past five years is shown in the following table:—

		Males.	Females.	Both Sexes.
1911	...	156.6	112.8	134.8
1912	...	92.2	76.3	84.4
1913	...	89.5	73.2	81.5
1914	...	102.1	77.2	89.9
1915	...	96.5	78.4	87.6

Fifty-four of the deaths occurred during the first week of life, which is equal to 22.8 per cent. of the total recorded. In the previous year the percentage was 26.5.

The causes which were responsible for the largest number of deaths of infants under one year of age during the last five years are:—

	1911.	1912.	1913.	1914	1915.
Diarrhœa and Enteritis ...	131	28	30	44	35
Premature Birth ...	65	55	64	69	56
Atrophy, Debility, and Maramus ...	49	27	25	34	15
Bronchitis and Pneumonia	56	42	45	33	48
Whooping Cough...	18	35	10	10	15

The deaths of illegitimate infants numbered 20, which, calculated upon the number of illegitimate births registered during the same period is equal to an infantile mortality rate of 172.4, compared with 83.8 for legitimate infants.

Similar rates for seven years are given for comparison:—

				Legitimate Infant Mortality Rate.			Illegitimate Infant Mortality Rate.
1909	...	...	...	99	...		311
1910	...	...	...	75	...		164
1911	...	...	...	128	...		366
1912	...	...	...	79	...		237
1913	...	...	...	77	...		191
1914	...	...	...	85	...		221
1915	...	...	...	84	...		172

The Infantile Mortality in the old Civil Parishes of the Borough per 1,000 births registered was: Town proper, 97.6; Portswood and Bitterne Park, 73.0; Shirley, Freemantle, and Millbrook, 77.8, the rate in Town proper showing a considerable increase over the preceding year.

The lowest infant mortality rate in the Municipal Wards was, as in the previous year, lowest in Newtown Ward, with a rate of 46.4, and the highest in St. Mary's Ward, with 135.9 Banister Ward had the unusually high rate of 128.4.

The rates in the Municipal Wards are given below, the rate in the preceding year being shown for comparison:—

Ward.				1915.			1914.
Newtown	...	...	...	46.4	...		33.9
St. Denys	...	...	...	53.2	...		72.5
Millbrook	...	...	...	68.5	...		91.6
Shirley	...	...	...	69.0	...		56.6
Freemantle	...	...	...	75.9	...		69.4
All Saints	...	...	...	79.1	...		61.1
Bevois	...	...	...	82.8	...		91.5
Portswood	...	...	...	85.3	...		60.5
Trinity	...	...	...	96.2	...		107.6
Town	...	...	...	98.5	...		150.9
Northam	...	...	...	99.7	...		120.5
Banister	...	...	...	128.4	...		62.5
St. Mary's	...	...	...	135.9	...		120.1

The Notification of Births Act came into operation in the Borough on the 9th March, 1908. This Act requires any person in attendance upon the mother within six hours after the time of birth, to notify the Medical Officer of Health of such birth in writing within thirty-six hours of the birth having occurred.

This Act was passed in order that Health Authorities might obtain immediate notice of the occurrence of a birth, thus making it possible for Health Visitors to give early instruction and advice to the mother as to the feeding and treatment of the child. Under the Registration Act, which allows a limit of six weeks within which a birth may be registered, it frequently occurs that registration of a birth is only obtained after death has taken place. During the year 106 deaths occurred among infants under six weeks of age, being 45 per cent. of all those that occurred under one year of age.

The number of notifications received during the year under the Act amounted to 2,283, which is 32 less than in the previous year, and 199 less than in 1913.

The total notified is equal to a percentage of 84.8 of the births registered during the same period, the percentage being higher than in previous years.

The numbers notified and percentage during the last five years is shown in the following table:—

	1911.	1912.	1913.	1914.	1915.
Notified by—					
Doctors ... ..	319	289	334	321	240
Midwives ... ..	1,727	1,790	1,836	1,733	1,880
Other persons present in the house at time of birth ... ..	400	490	322	261	163
	<hr/> 2,446	<hr/> 2,569	<hr/> 2,492	<hr/> 2,315	<hr/> 2,283
Percentage to births registered during the same period ... ..	85.9	91.1	84.3	78.5	84.8

All births that are notified in the industrial districts of the Borough are investigated by Health Visitors, and advice and instruction are given on the management of infants. These visits are welcomed, and they are repeated, where necessary, for several months after the birth of the child.

The number of births visited by the Health Visitor during 1915 amounted to 1069 primary visits and 2,901 re-visits.

Information was also obtained as to the method of feeding of 2,241 infants born during the year; of whom 1873 were stated to be fed by the breast alone, 60 by mixed feeding, and 308 by cows' milk, condensed milk, or patent foods.

The deaths of infants under one year of age amongst those as to whom information as to feeding was obtained were as follows:—

How fed.	Number	Deaths	Percentage
Breast ... ..	1,873	71	3.80
Other than Breast-fed ...	368	59	16.01

All premises visited in connection with the notification of Births Act were inspected, resulting in 361 sanitary defects or nuisances being remedied.

## **MATERNITY AND CHILD WELFARE.**

During the year the Notification of Births (Extension) Act, 1915, was passed, making compulsory throughout the country the system of notification of births.

The Local Government Board also issued a circular suggesting the development of schemes for dealing with Maternity and Child Welfare, and arrangements for Ante-Natal, Natal, and Post-Natal Clinics.

The suggestions contained in their circular were set out in the last Annual Report and the lines upon which it would be necessary to develop these.

In any scheme that is adopted for dealing with Maternity and Child Welfare it is essential that all administrative measures, both Municipal and Voluntary, should be under the direction of and controlled by the Medical Officer of Health.

The chief difficulty that has to be overcome is the provision of a suitable building within easy reach of working-class homes, that will provide accommodation as a centre for:—

1. An Ante-Natal Clinic.
2. School for Mothers for systematic classes and infant consultation.
3. Baby Clinic and Infant Dispensary.
4. Clinic and Dispensary for children up to school age.
5. Beds where cases of difficult labour, and for cases where conditions likely to be dangerous to the mother, could be treated.

There will also probably be need for the establishment of a properly equipped and controlled central creche or day nursery, owing to the large increase in the industrial occupation of married women in the Borough since the outbreak of the War.

In order to carry out all the requirements of the circular it is necessary that a sufficient staff of Health Visitors should be appointed. The Local Government Board suggest that, as a rule, one Health Visitor should be allowed for not more than 500 births, on the assumption that the whole of her time is devoted to this work. The average number of births in Southampton is about 2,900 per annum; so that on this basis the number of Health Visitors in the Borough is not sufficient.

The Health Visitor during the year made several visits to the Vountary Babies' Welcome at the Trinity School and King Street.

Practical demonstrations on infant washing and dressing were given to the older girls at some of the Elementary Schools during the year.

# INFANTILE MORTALITY, 1915.

CAUSES OF DEATH.				Under 1 week.	1-2 weeks.	2-3 weeks.	3-4 weeks.	Total under 4 weeks.	4 weeks & under 3 months.	3 months & under 6 months.	6 months & under 9 months.	9 months & under 12 months.	Total Deaths under 1 year.
All Causes—Certified	...	...	...	54	9	15	9	87	38	43	40	29	237
—Uncertified	...	...	...	...	...	...	...	...	...	...	...	...	...
Small Pox	...	...	...	...	...	...	...	...	...	...	...	...	...
Chicken Pox	...	...	...	...	...	...	...	...	...	...	...	...	...
Measles	...	...	...	...	...	...	...	...	...	1	2	2	5
Scarlet Fever	...	...	...	...	...	...	...	...	...	...	...	...	...
Whooping Cough	...	...	...	...	...	...	1	1	3	3	6	2	15
Diphtheria and Croup	...	...	...	...	...	...	...	...	...	1	...	...	1
Erysipelas	...	...	...	...	...	...	...	...	...	...	...	...	...
Tuberculous Meningitis	...	...	...	...	...	...	...	...	...	2	2	3	7
Abdominal Tuberculosis	...	...	...	...	...	...	...	...	...	2	...	1	3
Other Tuberculous Diseases	...	...	...	...	...	...	...	...	...	1	1	...	2
Meningitis (not Tuberculous)	...	...	...	...	...	...	...	...	1	...	2	...	3
Convulsions	...	...	...	1	1	...	...	2	...	1	2	1	6
Laryngitis	...	...	...	...	...	...	...	...	...	...	...	...	...
Bronchitis	...	...	...	2	...	...	...	2	9	5	7	4	27
Pneumonia (all forms)	...	...	...	1	...	1	...	2	3	4	6	6	21
Diarrhœa	...	...	...	...	1	1	1	3	7	8	5	3	26
Enteritis	...	...	...	...	...	1	...	1	2	3	2	1	9
Gastritis	...	...	...	...	...	...	...	...	...	...	...	...	...
Syphilis	...	...	...	...	...	1	...	1	2	...	...	1	4
Rickets	...	...	...	...	...	...	...	...	...	...	...	...	...
Suffocation, overlying	...	...	...	1	...	...	...	1	...	1	...	...	2
Injury at Birth	...	...	...	2	...	...	...	2	...	...	...	...	2
Atelectasis	...	...	...	3	1	...	...	4	...	...	...	...	4
Congenital Malformations	...	...	...	6	1	2	1	10	1	2	...	2	15
Premature Birth	...	...	...	36	5	6	5	52	4	...	...	...	56
Atrophy, Debility and Marasmus	...	...	...	...	...	1	1	2	5	7	1	...	15
Other Causes	...	...	...	2	...	2	...	4	1	2	4	3	14
Totals	...	...	...	54	9	15	9	87	38	43	40	29	237

Nett Births in the Year—Legitimate, 2,591; Illegitimate, 116.

Nett Deaths in the Year—Legitimate infants, 217; Illegitimate infants, 20.

# BIRTH RATE, DEATH RATE, AND INFANTILE MORTALITY IN SOUTHAMPTON SINCE 1882.

Year.	Birth Rate.	Death Rate.	Infantile Mortality.	Average Five Years.		
				Birth Rate.	Death Rate.	Infantile Mortality.
1882	32.1	18.3	131	31.8	18.6	134
1883	34.6	20.9	137			
1884	31.7	16.9	114			
1885	30.5	19.0	146			
1886	30.1	18.0	140			
1887	31.3	18.7	145	30.6	17.5	128
1888	31.3	16.9	126			
1889	30.6	16.3	117			
1890	28.5	17.5	129			
1891	31.3	18.0	123			
1892	28.6	21.5	148	29.8	18.6	145
1893	29.5	19.5	157			
1894	30.2	16.0	119			
1895	30.4	18.7	155			
1896	30.4	17.2	146			
1897	30.4	17.3	156	29.6	17.6	159
1898	29.8	17.3	153			
1899	29.6	19.1	178			
1900	28.3	17.6	152			
1901	30.0	16.6	154			
1902	29.1	15.7	124	27.6	14.6	120
1903	29.4	14.1	114			
1904	27.5	14.2	114			
1905	26.0	15.1	133			
1906	26.0	13.8	113			
1907	24.3	13.6	108	24.8	13.7	108
1908	25.4	13.6	113			
1909	25.3	13.9	106			
1910	24.9	12.4	79			
1911	23.9	15.2	135			
1912	23.3	13.2	84			
1913	23.8	12.9	82			
1914	23.9	13.9	90			
1915	21.9	14.8	88			

## MORTALITY FROM ZYMOTIC DISEASES.

The death-rate from diseases usually classified as the chief epidemic diseases, namely: Small Pox, Scarlet Fever, Diphtheria, Enteric Fever, Measles, Whooping Cough, and Diarrhœa and Enteritis, amounted to 1.33 per 1,000 of the population, which is higher than in the preceding year, when the rate was 0.996.

The death-rate per 1,000 of the population from the diseases specified above for the past five years is shown in the following table:—

	1911	1912	1913	1914	1915
Small Pox ...	.000	.000	.000	.000	.000
Scarlet Fever ...	.042	.017	.016	.081	.017
Diphtheria ...	.194	.158	.241	.316	.333
Enteric Fever ...	.025	.066	.048	.048	.069
Measles ...	.109	.149	.241	.081	.257
Whooping Cough ...	.151	.291	.080	.081	.316
Diarrhœa & Enteritis under 2 years of age	1.328	.257	.354	.389	.342
Total Zymotic Death-rate ...	1.849	0.938	0.980	0.996	0.1334

### THE INCIDENCE OF NOTIFIABLE INFECTIOUS DISEASES.

The total number of cases of infectious disease notified during the year amounted to 1,454. The following is a list of notifiable diseases and the number of cases notified of each disease:—

Small Pox ...	...	...	...	0
Cholera ...	...	...	...	0
Plague ...	...	...	...	0
Diphtheria ...	...	...	...	346
Erysipelas ...	...	...	...	63
Scarlet Fever ...	...	...	...	430
Typhus Fever ...	...	...	...	0
Enteric Fever ...	...	...	...	25
Relapsing Fever...	...	...	...	0
Continued Fever...	...	...	...	0
Puerperal Fever ...	...	...	...	5
Cerebro-Spinal Fever ...	...	...	...	14
Poliomyelitis ...	...	...	...	2
Opthalmia Neonatorum ...	...	...	...	21
Pulmonary Tuberculosis ...	...	...	...	318
Other forms of Tuberculosis...	...	...	...	78
				<hr/> 1,302 <hr/>

The following table shows the number of cases of notifiable disease recorded in the Borough during the past five years :—

DISEASE.	1911.	1912.	1913.	1914.	1915.
Small Pox ... ..	—	2	1	2	—
Scarlet Fever ... ..	198	288	177	344	430
Diphtheria ... ..	352	192	357	450	346
Enteric Fever ... ..	20	12	33	23	25
Continued Fever ... ..	—	1	—	—	—
Puerperal Fever ... ..	4	5	3	4	5
Erysipelas ... ..	69	72	51	67	63
Cerebro-Spinal Fever ... ..	—	1	—	—	14
Poliomyelitis ... ..	—	—	—	1	2
Ophthalmia Neonatorum ... ..	—	—	—	48	21
Pulmonary Tuberculosis ... ..	—	339	464	411	318
Other Forms of Tuberculosis ... ..	—	—	105	104	78
Total ... ..	643	912	1191	1454	1302

All cases of Pulmonary Tuberculosis were made compulsorily notifiable on the 1st January, 1912, other forms of Tuberculosis on the 1st February, 1913, and Ophthalmia Neonatorum on 1st April, 1914.

Detailed information respecting Tuberculosis is given on pages 33 to 56.

The table which follows gives a comparison of the infectious sickness rates during the year 1915 in Southampton with the average for England, and for the County Boroughs of England per 1,000 of the population:—

	Southampton.	County Boroughs of England.	England.
Small Pox ... ..	0.00	0.00	0.00
Scarlet Fever ... ..	3.68	3.71	3.53
Diphtheria ... ..	2.95	1.49	1.52
Enteric Fever ... ..	0.21	0.20	0.18
Puerperal Fever... ..	0.04	0.08	0.06
Erysipelas ... ..	0.54	0.76	0.67
Cerebro-Spinal Fever ... ..	0.12	0.06	0.08
Poliomyelitis ... ..	0.02	0.01	0.01
	7.56	6.31	6.05

There were 2,823 visits and re-visits made to houses in which infectious diseases occurred, and inquiries were made relative to the probable source of infection, and the isolation of the patient. Information was also given concerning the precautions necessary to be taken to prevent the spread of the disease.

In connection with school absentees, 1,307 visits were made where non-notifiable infectious diseases occurred.

Of the cases notified under the Infectious Disease Notification Act, 541 were removed to the Isolation Hospital for treatment.

Sanitary defects were found in 110 houses in which cases occurred.

Particulars respecting each disease are appended:—

### **SMALL POX.**

No case of Small Pox occurred during the year in the Borough or Port.

### **SCARLET FEVER.**

The number of cases of Scarlet Fever notified during the year among the civilian population amounted to 430 cases, being an increase of 86 cases compared with the total recorded in the previous year, and 253 more than in 1913.

The number of cases notified and deaths resulting from the disease for the past five years were:—

				Cases.	Deaths.	Percentage.
1907	...	...	...	165	2	1.21
1908	...	...	...	536	4	0.75
1909	...	...	...	424	5	1.47
1910	...	...	...	219	2	0.92
1911	...	...	...	195	5	2.56
1912	...	...	...	288	2	0.69
1913	...	...	...	177	2	1.13
1914	...	...	...	344	10	2.91
1915	...	...	...	430	2	0.47

The disease was prevalent throughout the year, the Wards of St. Denys and Portswood being chiefly affected.

The disease generally was of a mild type, the case mortality being only 0.47 per cent., which is the lowest recorded for several years.

Two hundred and sixty-two of the cases notified were removed to the Isolation Hospital for treatment, being a percentage of 61.5 compared with 68.3 in the previous year, and 78.0 in 1913.

In addition to the cases admitted to the Isolation Hospital from the Borough, 1 case was admitted from the Port, 10 cases from neighbouring districts, and 65 military cases were also admitted for treatment.

Operations for the removal of tonsils and adenoids was performed on 6 cases, or 1.8 per cent. of the total number of cases admitted to Hospital (including cases admitted from other districts). The percentage last year was 5.4.

The number of cases admitted suffering with purulent nasal discharge amounted to 53. The number of cases suffering with purulent ear discharge was 16.

The methods of treatment and discharge which have been adopted at the Isolation Hospital since 1902 were again carried out during the year, no heed being taken of desquamation in regard to detention in Hospital, but particular attention being given to the condition of the respiratory passages, ears, etc., by special isolation and treatment.

Two "return" cases occurred during the year. The particulars of these cases are:—

(1) M.H., age 7 years, was admitted on November 17th, 1914, suffering with Scarlet Fever and discharged January 4th, 1915. On January 10th the child's mother, D.H., and sister, C.H., age 4 years, were notified to be suffering from Scarlet Fever.

(2) M.F., age 16 years, was admitted April 11th and discharged June 3rd. On June 10th her sister, D.F., age 17 years was notified to be suffering from Scarlet Fever.

The following table gives particulars of cases of Scarlet Fever notified in the Borough, shewing the number treated in the Isolation Hospital, the period of detention and the number of "return" cases in each year:—

Year.	Cases notified.	Admitted to Hospital.	Average period in Hospital (days).	No. of "return" cases.	Cases treated at home.
1902	261	208	48	7	53
1903	427	353	34	7	74
1904	113	102	26.7	2	11
1905	140	123	29.3	2	17
1906	68	60	28.8	2	8
1907	165	151	32.6	3	14
1908	536	378	33.7	5	158
1909	424	331	38.8	3	93
1910	219	183	36.9	0	36
1911	195	171	34.0	0	24
1912	288	235	32.0	0	53
1913	177	136	34.0	4	41
1914	344	235	30.5	1	109
1915	430	262	32.3	2	168

### DIPHTHERIA.

Cases of Diphtheria occurred with frequency throughout the earlier months of the year, but showed a marked decrease in the last three months of the year when compared with the two preceding years. The number of cases notified amounted to 346, which is a decrease of 104 compared with 1914, and 11 compared with 1913.

The Municipal Wards in which the cases were most prevalent were Freemantle 58 cases, Millbrook 56, and Shirley 40. The fewest number of cases were notified in Town Ward, 7 cases, and St. Mary's Ward, 7 cases.

Thirty-nine deaths were recorded, the same as in the previous year, 75 per cent. of the deaths occurring in the first half of the year. The case mortality was 11.27 per cent., the highest recorded since 1905.

The number of cases notified and deaths recorded during the past ten years are shown in the following table :—

				Cases.	Deaths.	Percentage.
1905	...	...	...	229	26	11.35
1906	...	...	...	262	24	9.16
1907	...	...	...	204	22	10.78
1908	...	...	...	248	16	6.45
1909	...	...	...	202	19	8.56
1910	...	...	...	208	16	7.69
1911	...	...	...	352	23	6.53
1912	...	...	...	192	19	9.90
1913	...	...	...	357	30	8.40
1914	...	...	...	450	39	8.67
1915	...	...	...	346	39	11.27

Two hundred and twenty-one of the cases notified were admitted to the Isolation Hospital for treatment, which is equal to a percentage of 63.9 compared with 64.9 in 1914, and 62.7 in 1913.

In addition to the number specified above, 1 case among the crew of a vessel was admitted to the Isolation Hospital from the Port, 36 from neighbouring districts, and 92 military cases.

### ENTERIC FEVER.

The cases of Enteric Fever notified in the Borough during the year amounted to 25. This is an increase of 2 cases compared with those notified in 1914, but is 4 less than the average for the preceding 5 years.

The number of cases notified, and the deaths that occurred amongst cases notified in the Borough since 1901 are given in the following table :—

				Cases.	Deaths.	Percentage of Deaths amongst cases notified in the Borough.
1901	...	...	...	106	7	6.6
1902	...	...	...	123	15	12.2
1903	...	...	...	148	19	12.8
1904	...	...	...	19	1	5.3
1905	...	...	...	34	8	23.5
1906	...	...	...	15	5	33.3
1907	...	...	...	21	4	19.0
1908	...	...	...	37	4	10.8
1909	...	...	...	53	7	13.2
1910	...	...	...	55	9	16.4
1911	...	...	...	20	3	15.0
1912	...	...	...	13	3	23.1
1913	...	...	...	33	6	18.2
1914	...	...	...	23	4	17.4
1915	...	...	...	25	8	32.0

The above table does not include the deaths of persons who were landed in the Port suffering from Enteric Fever and who subsequently died from the disease in Hospitals in the Borough.

Of the cases notified during the year three were members of crews of vessels who had arrived at other Ports a few days prior to onset of illness, two of these arrived from South Africa and one from South America.

One case arrived in the Port from the Dardanelles a few days before illness, and another case had been working on a Hospital ship.

One case notified was a girl who had been in contact with her sister who was suffering from Enteric Fever in Ireland; another case was that of a nurse who had been nursing a case of Enteric in a country district in Hampshire.

Of the remaining cases two had eaten shellfish shortly before illness, two had been in contact with a case of Enteric, and one returned home ill from Somerset.

In thirteen of the cases it was not possible to obtain any evidence as to the probable source of origin.

Fourteen of the cases notified in the Borough were admitted to the Isolation Hospital. Fourteen cases (including three cases of paratyphoid) which were landed in the Port and nine military cases were also admitted.

# ENTERIC FEVER, 1915.

26

NO.	DATE.	NAME.	AGE.	SEX.	ADDRESS..	WHERE ISOLATED.	REMARKS.
1	Feb. 3	F.W.	21	M	Bernard Street	Isolation Hospital	Had eaten shell fish previous to illness
2	" 21	E.W.	10	F	Endle Street	Union Infirmary	...
3	" 23	R.C.	12	F	Dukes Road	Do.	...
4	Mch. 10	W.W.	56	M	Weymouth Terrace	Do.	...
5	" 10	W.W.	43	M	Workhouse	Do.	...
6	" 10	W.F.	32	M	Council Buildings...	Do.	...
7	May 3	A.S.	37	F	Lyon Street	Do.	Arrived home from South America 3 days previous to illness Died
8	" 6	T.R.	38	M	Bond Road	Isolation Hospital	Bedroom Steward. Returned home unwell after a voyage to South Africa.
9	" 8	S.T.	50	F	Church Street	Do.	Stewardess. Returned home unwell after a voyage to South Africa
10	June 26	A.B.	15	M	Bullar Street	Do.	...
11	Aug. 1	T.F.	25	M	Portswood Road	Do.	Died.
12	" 4	A.P.	24	M	Derby Road	Do.	Returned home unwell from Somerset.
13	" 12	L.C.	25	F	Princes Street	Do.	Had eaten shell fish previous to illness.
14	" 18	E.T.	54	F	Ascupart Street	At Home	Died.
15	Sept. 24	H.M.	5	F	Cable Street	Royal S.H. Hospital	Died.
16	Oct. 5	J.G.	11	F	Lower Canal Walk	Isolation Hospital	Died.

# ENTERIC FEVER—Continued.

No.	DATE.	NAME.	AGE.	SEX.	ADDRESS.	WHERE ISOLATED.	REMARKS.
17	" 19	E.K.	24	F	The Avenue	Isolation Hospital	Had been in contact with sister who had been suffering from Enteric Fever in Ireland.
18	Nov. 1	J.B.	36	M	Bevois Valley Road	Do.	Had been working on a Hospital Ship in the Docks.
19	" 5	M.M.	34	F	Grosvenor Square...	Nursing Home	Returned home unwell after nursing a case of Enteric Fever at Shedfield.
20	" 6	H.H.	27	M	Dock Street	At Home	Returned home from Dardanelles 3 days previous to illness.
21	" 6	M.P.	40	F	Deal Street	Do.	
22	" 17	F.M.	13	M	Elm Road	Isolation Hospital	
23	Dec. 1	A.W.	51	F	Albert Road	Do.	
24	" 10.	A.J.	8	F	Elm Road	Do.	Contact with case No. 22. Died.
25	" 14	E.J.	2	F	Elm Road	Do.	Contact with cases No. 22 & 24. Died.

The following shows the Sanitary Defects found in Houses in which cases of Diphtheria and Enteric Fever occurred:—

WARD.	Number of cases notified during the year.	Water Closets inadequately supplied with water.		Defective guttering under roof of houses causing damp walls.		Defective drains		Dirty walls and ceilings of houses.		Defective paving in back yards.		No sanitary dustbins		Roof of houses defective.		Back yards unpaved.		Total number of Nuisances abated.	
		Diphtheria.	Enteric Fever.	Diphtheria.	Enteric Fever.	Diphtheria.	Enteric Fever.	Diphtheria.	Enteric Fever.	Diphtheria.	Enteric Fever.	Diphtheria.	Enteric Fever.	Diphtheria.	Enteric Fever.	Diphtheria.	Enteric Fever.	Diphtheria.	Enteric Fever.
Town ...	7			1		2		1				1	2					6	2
St. Marys	7	1			1											1			4
Northam	18			1				1				2							
Trinity	23					1												3	
Newtown	23				1	1												3	1
All Saints	16					1												2	
Bevois	16	1				1												12	1
Banister	17			2		2		5										3	
Freemantle...	58			2		8				3								30	
Millbrook	56			1		1		7		6		1						17	
Shirley	40							4		1		1						8	
Portswood	33							1				2						4	
St. Denys	32					1		2				4						8	
Total ...	346	2	...	6	1	22	2	27	2	13	...	14	2	14	...	7	1	105	8





## **PUBLIC HEALTH (OPHTHALMIA NEONATORUM)**

### **REGULATIONS, 1914.**

There was a marked decrease in the number of cases of Ophthalmia Neonatorum notified, the number of cases recorded being 21. The Regulations came into operation 1st April, 1914, and during the 9 months ended 31st December, 1914, 48 cases were notified. Of the 21 cases notified during 1915, 3 were certified by medical practitioners, 9 by midwives, and 9 from Free Eye Hospital.

In the Municipal Wards the following is the number of cases notified per 1,000 births registered: Town 3.7, St. Mary 14.0, Northam 12.4, Trinity 0, Newtown 0, All Saints 17.0, Bevois 6.9, Banister 9.2, Freemantle 27.6, Millbrook, 0, Shirley 0, Portswood 6.1, St. Denys 10.6, Borough 7.8.

### **CEREBRO-SPINAL FEVER.**

Fourteen cases of Cerebro-Spinal Fever were notified during the year as occurring among the civil population of the Borough.

The Regulations making Cerebro-Spinal Fever compulsorily notifiable came into operation on the 1st September, 1912, and until the occurrence of the cases under review only one case had been notified in the Borough.

Nine of the cases notified proved fatal, giving a case mortality of notified cases of 69.2 per cent.

Each case was investigated thoroughly as to history of infection, but in only one case was there any evidence of the patient having been in contact with another case, nor could any connection with military cases be discovered.

Contacts were bacteriologically examined and kept under observation.

The particulars relating to each case are epitomized in the following table:—

# CASES OF CEREBRO-SPINAL FEVER, 1915.

NO.	Date of Notification.	Date of onset of illness.	Name.	Age.	Sex.	Address.	Where Isolated.	Bacteriological Examination.	Result of Case.	History of Infection.
1	Feb. 26	Feb. 23	E.S.F.	3½	F	Tennyson Road	... Isolation Hospital ...	Positive	... Died 22nd June	Nil.
2	March 4	Feb. 28	Mrs. S.S.	64	F	Derby Road	... Home ...	Ditto	... Died 4th March	Nil.
3	March 11	Feb. 18	M.G.	5	F	Foundry Lane	... Isolation Hospital ...	Negative	... Discharged 13th March	Nil.
4	March 15	March 9	H.S.	12	F	Foundry Lane	... Home ...	No exam.	... Recovered	Nil.
5	March 15	March 11	A.E.S.	12	M	Vaudrey Street	... Home ...	Positive	... Died 12th March Inquest. P.M.	Nil.
6	March 15	March 12	E.D.	5	M	Stratton Road	... Isolation Hospital ...	Ditto	... Died 23rd May	Stated to have been in contact with previous case
7	April 11	April 3	W.G.J.	27	M	Newcombe Road	... Ditto ...	Negative	... Discharged 13th April	Nil.
8	April 10	April 1	C.J.	40	M	Bridlington Avenue	Home ...	Ditto	... Died 10th April	On a visit to Southampton. Ill on arrival.
9	May 14	May 5	L.D.	5	M	Woodside Road	... Isolation Hospital ...	Positive	... Recovered	Nil.
10	June 23	June 22	N.L.	30	F	Newcombe Road	... Ditto ...	Ditto	... Died 29th June	Nil.
11	August 3	July 27	H.V.L.	18	M	Belgrave Road	... Ditto ...	Ditto	... Died 24th Aug.	Nil.
12	August 11	July 29	W.H.S.	18	F	Derby Road	... Ditto ...	Ditto	... Died 17th Aug.	Nil.
13	Sept. 20	Sept. 11	H.A.M.	2	F	Wyndham Place	... Ditto ...	Negative	... Discharged 25th September	Nil.
14	Oct. 10	Oct. 8	A.G.E.	6 ms.	M	Malmesbury Road	... Home ...	No exam.. P.M. made by Med. Attendant.	... Died 9th Oct. ...	Nil.

### **ACUTE POLIOMYELITIS.**

Two cases of acute poliomyelitis were notified during the year, particulars of which are as follows:—

F.K., female, aged 10 years, residing at Cross Street, was taken ill 7th November, 1914, and was taken by her mother, on January 19th, 1915, to the Royal South Hants and Southampton Hospital, where the disease was diagnosed as acute poliomyelitis, and she was treated there as an out-patient. Permanent paralysis of right arm, shoulder to elbow, and left leg.

C.J., male, aged 1 year 5 months, was taken ill September 15th, and was treated at the Children's Hospital, Shirley, and the Royal South Hants and Southampton Hospital, as an out-patient. The case was notified from the latter institution on September 26th. Permanent paralysis of left leg, knee to ankle.

### **MEASLES.**

The deaths from Measles were above the average for the Borough, the number of deaths recorded (30) being 12 above the average for the previous 5 years. The disease was most prevalent in May and June, twelve deaths being registered in the latter month. The highest number of deaths occurred in St. Mary's and Northam Wards, the totals being 10 and 7 respectively.

### **WHOOPING COUGH.**

The deaths from Whooping Cough were also above the average, the total recorded being 37, which is 20 above the average of the previous 5 years. The disease was very prevalent in the Shirley district in the early part of the year. Eleven deaths occurred in Shirley Ward and 6 in Millbrook Ward.

### **DIARRHŒA AND ENTERITIS.**

The number of deaths from diseases classified by the Registrar-General under the above heading amounted to a total of 47, being a decrease of 14 over those recorded in the previous year. The average for the previous five years was 74.

The deaths classified by the Registrar-General under the above heading include the following diseases:—

	Under 2 years of age.	Aged 2 years and over.	Total.
Diarrhœa and Infective			
Enteritis ... ..	29	2	31
Enteritis ... ..	8	0	8
Gastro Enteritis ...	3	2	5
Dyspepsia (under 2 years of age)... ..	—	—	—
Colitis ... ..	—	1	1
Duodenal Ulcer ...	—	1	1
Ulceration of intestines	—	1	1
	40	7	47

The death-rate from all diseases under the heading of Diarrhœa and Enteritis amounted to 0.40 per 1,000 of the population compared with 0.49 in 1914, and 0.44 in 1913. The deaths from Diarrhœa and Enteritis under 2 years of age was equal to a rate of 14.8 per 1,000 births, compared with 18.18 for England and Wales, and 24.48 for the 96 large towns.

The largest number of deaths occurred in the Northam, St. Mary, and Town Wards, the totals recorded being 10, 8, and 6 respectively.

## MILITARY CASES OF INFECTIOUS DISEASE AND DEATHS OCCURRING IN THE BOROUGH DURING THE YEAR.

### INFECTIOUS CASES.

The following notifications were received of cases occurring in Military Hospitals or Rest Camp in the Borough:—

Scarlet Fever ... ..	4
Enteric Fever ... ..	2
Diphtheria ... ..	1
Cerebro-Spinal Fever ...	3
Erysipelas ... ..	4
Pulmonary Tuberculosis ...	9
	—
	23
	—

Military cases of infectious disease admitted to the Isolation Hospital from various Camps and Hospitals in the neighbourhood, including Military cases landed in the Port:—

Scarlet Fever	...	...	...	...	65
Diphtheria	...	...	...	...	92
Enteric Fever	...	...	...	...	9
Measles	...	...	...	...	56
Cerebro-Spinal Fever	...	...	...	...	9
Chicken Pox	...	...	...	...	2
Mumps	...	...	...	...	4
Erysipelas	...	...	...	...	1
					<hr/>
					238
					<hr/>

#### DEATHS OF SOLDIERS REGISTERED IN THE BOROUGH DURING THE YEAR.

Enteric Fever	...	...	...	...	8
Dysentery	...	...	...	...	23
Cerebro-Spinal Fever	...	...	...	...	2
Cancer	...	...	...	...	1
Rheumatic Fever	...	...	...	...	1
Heart Disease	...	...	...	...	3
Pneumonia	...	...	...	...	3
Chronic Nephritis	...	...	...	...	1
Frost Bite	...	...	...	...	1
Gunshot Wounds	...	...	...	...	13
Accidents	...	...	...	...	10
Suicide	...	...	...	...	1
					<hr/>
					67
					<hr/>

#### TUBERCULOSIS.

The total number of deaths from all forms of Tuberculosis of persons classified as residents of the Borough amounted to 206, as follows:—

Pulmonary Tuberculosis	...	...	...	...	170
Tuberculosis Meningitis	...	...	...	...	14
Tuberculosis of the Peritoneum and Intestines					14
„ „ Spine	...	...	...	...	4
Tubercular abscess of Axilla	...	...	...	...	1
Disseminated Tuberculosis	...	...	...	...	3
					<hr/>
					206
					<hr/>

The total number of deaths recorded from all forms of the disease is 5 below that recorded in the previous year, pulmonary tuberculosis showing a decrease of 2 deaths, and other forms a decrease of 3.

The death-rate from pulmonary tuberculosis was equal to 1.45 per 1,000 of the population. This is 0.06 higher than in 1914, and is 0.16 higher than the average of 1.29 for the preceding 10 years.

The mortality among males was, as is usual in Southampton, much higher than that of females, the death rates calculated on the estimated male and female population were 1.95 and 1.05 respectively.

The death-rate for 1915 is calculated on civil population as estimated by the Registrar-General.

#### DEATH-RATES FROM PULMONARY TUBERCULOSIS SINCE 1901.

			Males.	Females.	Both Sexes.
1901	...	...	1.76	1.01	1.37
1902	...	...	1.77	1.23	1.49
1903	...	...	1.50	0.83	1.15
1904	...	...	1.62	0.92	1.26
1905	...	...	1.59	0.87	1.22
1906	...	...	1.83	0.95	1.38
1907	...	...	1.41	0.84	1.11
1908	...	...	1.42	0.91	1.15
1909	...	...	1.85	0.01	1.36
1910	...	...	1.75	0.76	1.23
1911	...	...	2.01	1.17	1.58
1912	...	...	1.81	0.88	1.33
1913	...	...	1.52	0.92	1.21
1914	...	...	1.75	1.06	1.39
1915	...	...	1.94	1.05	1.45

The percentage of deaths from Pulmonary Tuberculosis during the year to cases notified during the same period is appended with the comparative figures for 1912—1914:—

			Males.	Females.	Both Sexes.
1912	...	...	52.5	39.6	47.2
1913	...	...	38.7	25.8	32.3
1914	...	...	45.6	37.2	41.8
1915	...	...	62.4	43.8	53.5

Of the cases dying in 1915 the following table shows the years in which the primary notifications were received. Compulsory notification of all cases of Pulmonary Tuberculosis first came into operation on the 1st January, 1912 :—

1909	...	...	...	...	...	3
1910	...	...	...	...	...	2
1911	...	...	...	...	...	0
1912	...	...	...	...	...	12
1913	...	...	...	...	...	17
1914	...	...	...	...	...	38
1915	...	...	...	...	...	76
Not notified	...	...	...	...	...	22
						170

The mortality from tuberculous diseases other than pulmonary was equal to a rate of 0.31 per 1,000 of the population, which is slightly lower than in the previous year, and compares favourably with the average, 0.38, for the past four years.

Table showing death-rate<sup>s</sup>, per 1000 of the population, from Tubercular Diseases, from 1873 to 1913, grouped in periods of five years :—

	Pulmonary.	Other Tubercular Diseases.	Total Tubercular Diseases.
1873-1876 (4 years) ...	—	—	2.79
1877-1880 (4 years) ...	2.11	0.68	2.79
1881-1885 (5 years) ...	1.86	0.63	2.49
1886-1890 (5 years) ...	1.72	0.50	2.22
1891-1895 (5 years) ...	1.56	0.68	2.24
1896-1900 (5 years) ...	1.49	0.57	2.06
1901-1905 (5 year ) ...	1.30	0.51	1.81
1906-1910 (5 years) ...	1.25	0.41	1.66
1911-1915 (5 years) ...	1.39	0.34	1.73

SUMMARY OF NOTIFICATIONS RECEIVED UNDER THE PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1912, DURING THE 52 WEEKS ENDED 1ST JANUARY, 1916.

Form A	...	...	...	...	395
„ B	...	...	...	...	22
„ C	...	...	...	...	228
.. D	...	...	...	...	244
					889

Of the above total 396 were primary notifications, that is, notified for the first time in the County Borough.

The localisation of the disease in the 396 primary cases notified was:—

# NUMBER OF PRIMARY NOTIFICATIONS RECEIVED DURING THE YEAR 1915.

Localisation of Disease.					Males.	Females.	Total.
<b>PULMONARY.</b>							
Lungs	...	...	...	...	154	149	303
Lungs and Larynx	...	...	...	...	5	1	6
Pleuræ	...	...	...	...	1	...	1
„ Cervical Glands	...	...	...	...	3	1	4
„ Bronchial Glands	...	...	...	...	...	2	2
„ Spine	...	...	...	...	1	...	1
Pleuræ and Bronchial Glands	...	...	...	...	1	...	1
Total Pulmonary					165	153	318
<b>NON-PULMONARY.</b>							
Bronchial Glands	...	...	...	...	4	...	4
Meninges of Brain	...	...	...	...	3	3	6
Peritoneum and Intestines	...	...	...	...	8	6	14
Cervical Glands	...	...	...	...	15	21	36
Spine	...	...	...	...	3	...	3
Hip	...	...	...	...	4	3	7
Knee	...	...	...	...	...	2	2
Ankle	...	...	...	...	1	...	1
Foot	...	...	...	...	...	1	1
Wrist	...	...	...	...	1	...	1
Skin	...	...	...	...	1	1	2
Anterior nares	...	...	...	...	1	...	1
Total Non-Pulmonary					41	37	78
Total of Primary Notifications :—							
Pulmonary	...	...	...	...	165	153	318
Non-Pulmonary	...	...	...	...	41	37	78
					206	190	396

The following table shows the age and sex incidence of the disease :—

PRIMARY CASES NOTIFIED DURING THE YEAR 1915  
(52 WEEKS ENDED 1ST JANUARY, 1916), TABULATED  
ACCORDING TO AGES AND SEX.

	0 to 1	1 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 and up- wards.	Total.
PULMONARY.												
Males ...	1	4	13	10	2	12	39	33	26	21	4	165
Females ...	1	5	15	11	14	14	38	30	19	2	4	153
Total of Pulmonary ...	2	9	28	21	16	26	77	63	45	23	8	318
NON-PULMONARY.												
Males ...	5	5	15	6	1	2	2	...	3	1	1	41
Females ...	3	8	12	6	2	1	2	2	...	...	1	37
Total of Non-Pulmonary	8	13	27	12	3	3	4	2	3	1	2	78
Total all forms of Tuberculosis ...	10	22	55	33	19	29	81	65	48	24	10	396

The following table has been drawn up in the form suggested by the Local Government Board :—

# **PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1912.**

SUMMARY OF NOTIFICATIONS DURING THE PERIOD FROM 3RD JANUARY, 1915, TO

THE 1ST JANUARY, 1916.

Notifications on Form A.													Notifications on Form B.				Number of Notifica- tions on Form C.			
Age Periods.	Number of Primary Notifications.												Total notifications on Form A.	Number of Primary Notifications.				Total notifications on Form B.	Poor Law Institu- tions.	Sanatoria.
	0 to 1	1 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 & up- wards	Total								
	Un- der 5	5 to 10	10 to 15	Total																
Pulmonary—																				
Males	1	4	7	8	2	12	39	33	26	21	4	157	165	—	6	2	8	52	75	
Females	1	5	12	9	14	14	38	30	19	2	4	148	156	—	3	2	5	13	84	
Non-Pulmonary—																				
Males	5	5	13	5	1	2	2	—	3	1	1	38	39	—	2	1	3	1	—	
Females	3	8	8	5	2	1	2	2	—	—	1	32	35	—	4	1	5	1	2	

# TUBERCULOSIS.

## SOCIAL POSITION OF NOTIFIED CASES.

Position in Life.	Males.	Females.		Son of	Daughter of	Total.
		Wife or Widow.	Single (Adults).			
Baker ... ..	I	I	—	2	—	4
Barman ... ..	—	—	—	—	I	I
Boilermaker ... ..	I	—	—	—	I	2
Boot Repairer ... ..	—	—	—	—	I	I
Brushmaker ... ..	I	—	—	—	—	I
Bricklayer ... ..	—	—	—	—	3	3
Builder ... ..	—	—	—	—	I	I
Butcher... ..	—	I	—	—	I	2
Cabinet Maker ... ..	I	—	—	—	—	I
Caretaker ... ..	—	—	—	—	3	3
Carpenter and Joiner ... ..	6	2	—	2	3	13
Carman ... ..	—	I	—	2	4	7
Cellarman ... ..	—	I	—	—	—	I
Charwoman ... ..	—	3	—	I	—	4
Chef ... ..	2	—	—	—	—	2
Chemist ... ..	I	I	—	—	—	2
Clerk ... ..	8	4	7	2	—	21
Club Steward ... ..	I	—	—	—	—	I
Coal Porter ... ..	I	2	—	I	I	5
Commercial Traveller... ..	2	—	—	—	I	3
Commission Agent ... ..	—	I	—	—	—	I
Companion ... ..	—	—	2	—	—	2
Costermonger ... ..	I	—	—	—	—	I
Domestic Servant ... ..	—	—	15	I	I	17
Draughtsman ... ..	2	—	—	—	—	2
Dressmaker or Milliner ... ..	—	—	5	—	—	5
Driller ... ..	I	—	—	I	—	2
Electrician ... ..	2	—	—	—	—	2
Engineer ... ..	I	4	—	—	2	7
Factory Worker ... ..	—	—	2	—	—	2
Fitter ... ..	I	I	—	—	I	3
Grocer ... ..	—	I	—	—	—	I
Groom ... ..	I	I	—	—	—	2
Hairdresser ... ..	—	2	—	—	—	2
Hammerman ... ..	I	—	—	—	—	I
Hawker ... ..	2	—	—	—	—	2
Housewife ... ..	—	12	—	—	—	12
Insurance Agent ... ..	—	I	—	I	I	3
Labourer .... ..	46	10	—	23	17	96
Laundress ... ..	—	—	I	—	—	I
Licensed Victualler ... ..	2	—	—	I	—	3
Lodging House Keeper ... ..	—	—	—	—	I	I
Map Folder ... ..	—	—	I	—	—	I
Mechanic ... ..	2	—	—	—	2	4
Milk Purveyor ... ..	—	2	—	I	—	3
Motor Engineer ... ..	2	—	—	—	—	2
Musician ... ..	3	—	—	—	—	3
Night Watchman ... ..	I	—	—	—	—	I
News vendor ... ..	I	—	—	—	—	I
Painter ... ..	10	—	—	—	I	11
Picture Frame Maker ... ..	—	—	—	—	I	I
Plumber ... ..	2	—	—	—	—	2
Police Constable ... ..	I	—	—	—	—	I
Porter—Shop ... ..	I	—	—	—	—	I
Postman ... ..	—	—	—	—	I	I

## SOCIAL POSITION OF NOTIFIED CASES—(Continued).

Position in Life.	Males.	Females.		Son of	Daughter of	Total.
		Wife or Widow.	Single (Adults).			
Printer ... ..	2	—	—	1	—	3
Railway Guard ...	1	—	—	—	—	1
Soldier ... ..	—	—	—	2	1	3
Railway Shunter ...	1	—	—	—	—	1
Seaman ... ..	14	6	—	3	7	30
School Teacher ...	—	—	1	—	—	1
Ship's Officer ...	1	3	—	—	1	5
Ship's Barman ...	1	—	—	—	—	1
Ship's Cook ... ..	3	1	—	1	—	5
Ship's Engineer ...	1	—	—	—	—	1
Ship's Fireman ...	4	3	—	2	1	10
Ship's Printer ...	—	1	—	—	—	1
Ship's Steward ...	5	1	—	—	4	10
Ship's Stoker ...	1	—	—	—	—	1
Shipwright ... ..	—	—	—	1	1	2
Shopkeeper ... ..	—	2	—	1	1	4
Shop Assistant ...	3	3	3	1	—	10
Tailor or Tailoress ...	2	—	—	1	1	4
Tram Conductor or Driver ... ..	1	1	—	1	—	3
Tramp ... ..	—	—	1	—	—	1
Upholsterer ... ..	—	—	—	—	1	1
Waiter ... ..	—	—	—	1	—	1
Wire Worker ... ..	1	—	—	—	—	1
Warehouseman ...	—	1	—	—	—	1
Wood Porter ... ..	1	—	—	—	—	1
No Occupation ...	1	3	8	—	—	12
Occupation unknown ...	3	—	1	—	—	4
Total ... ..	154	76	47	53	66	396

TABLE showing cases, case-rate, deaths, and death-rate from Pulmonary and Non-Pulmonary Tuberculosis in each of the Municipal Wards during the year 1915 (52 weeks ended 1st January 1916) :—

WARD	CASES.				DEATHS.			
	Pulmonary.		Non-Pulmonary		Total.		Pulmonary.	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1. Town	52	4.79	19	1.75	71	6.54	34	3.13
2. St. Marys	41	3.47	15	1.27	56	4.74	25	2.12
3. Northam	28	2.59	3	0.28	31	2.87	19	1.76
4. Trinity	23	2.72	6	0.71	29	3.43	13	1.54
5. Newtown	19	2.44	2	0.25	21	2.69	6	0.77
6. All Saints	23	2.62	5	0.57	28	3.19	8	0.91
7. Bevois	19	2.46	4	0.52	23	2.98	9	1.16
8. Banister	11	1.51	2	0.27	13	1.78	7	0.95
9. Freemantle	13	1.72	3	0.40	16	2.12	3	0.40
10. Millbrook	24	2.57	4	0.43	28	3.00	12	1.28
11. Shirley	22	2.29	4	0.41	26	2.70	12	1.25
12. Portswood	21	2.43	4	0.46	25	2.89	12	1.38
13. St. Denys	22	2.65	7	0.84	29	3.49	10	1.20
Borough	318	2.72	78	0.67	396	3.39	170	1.45
							36	0.31
							206	1.76



# DIAGNOSIS, TREATMENT, AND PREVENTION OF TUBERCULOSIS.

## RECORD OF DISPENSARY WORK FOR THE YEAR 1915:—

### New patients—

Insured ...	...	...	122
Dependents ...	...	...	171
Others ...	...	...	35
			<hr/> 328 <hr/>

### Visits of Patients under Observation—

Insured ...	...	...	760
Dependents ...	...	...	1454
Others ...	...	...	201
			<hr/> 2355 <hr/>

### Visits of Patients under Treatment—

Insured ...	...	...	4767
Dependents ...	...	...	5373
Others ...	...	...	896
			<hr/> 11036 <hr/>

### Visits paid by Health Nurses to Homes of Tubercular patients—

Insured ...	...	...	1140
Dependents ...	...	...	1810
Others ...	...	...	603
			<hr/> 3553 <hr/>

Consultations at Homes of Patients  
between Tuberculosis Medical  
Officer and Private Doctors ... 61

RECORD OF NUMBER OF PATIENTS UNDER DISPENSARY TREATMENT  
DURING 1915:—

	Pulmonary.	Non-Pulmonary.
Number of cases under treatment on January 1st, 1915... ..	196	3
New cases treated (i.e., the number of new dossiers commenced) ...	235	46
Cases transferred from Sanatorium ...	118	8
Cases transferred from Domiciliary treatment ... ..	3	—
Cases transferred from General Super- vision ... ..	29	3
Cases transferred to Sanatorium ...	122	8
Cases transferred to Domiciliary treatment ... ..	70	—
Cases lost sight of (including removals from the Borough) ... ..	49	—
Cases who have finished treatment during the year and are now under General Supervision ... ..	178	22
Total under Dispensary treatment on January 1st, 1916 ... ..	200	5
Total number of notified cases under observation at the end of the year 1915... ..	...	1460

Comparison with 1914 shows that there were 8 more new cases in 1915. In other words, the number of new patients treated has remained about the same as in the year previously.

The number of visits paid by patients to the Dispensary was 13,719, or 529 more visits than in 1914.

The number of consultations at the patients' homes between the Tuberculosis Officer and the private practitioner was 61.

## RECORD OF SANATORIUM WORK FOR 1915:—

	Insured.	Dependents.	Others.	Totals.
Patients remaining in Sanatorium, January 1st, 1915 ...	21	8	2	33
Patients admitted during 1915...	98	46	11	162
Patients discharged during 1915	89	43	10	150
Patients died in Sanatorium ...	6	4	1	11
Average duration of stay in Sanatorium of each patient... ..				82 days
Number of Sputum examinations carried out for Medical Practitioners in the Borough ... ..				51

## DIAGNOSIS.

All cases coming under the Municipal Scheme are thoroughly examined by Physical and X-ray methods, and also, in instances presenting no contra-indications, by Tuberculin.

The reason for this is, firstly, to determine those cases which are likely to benefit by residential treatment in the Sanatorium and to advise them accordingly; secondly, to find out those patients who will probably benefit by Tuberculin injections.

In the past, throughout England and on the Continent, considerable harm was inflicted by the injudicious exhibition of Tuberculin. Unless care is used in the selection of cases, harm may be done by giving this potent drug to those who are unable to withstand the bodily re-action it often causes. On the contrary, there are many cases in which it exerts most beneficial effects. The careful and prolonged examination and observation of new cases is the only sure way of doing justice either to the patients or to Tuberculin.

Some of the more ignorant patients are unable to carry out the instructions given them during the period of determining an exact diagnosis. In cases where no headway can be made, they are admitted into the Sanatorium, where careful and skilled supervision can be carried out. Also in cases presenting peculiar difficulties the same course is adopted.

TABLE SHOWING THE NUMBER OF DIAGNOSES MADE  
DURING 1915, AND THE RESULTS OBTAINED.

	Found to be suffering from		Found to be Non-Tuberculous.	Totals.
	Pulmonary Tuberculosis.	Non-Pulmonary Tuberculosis.		
Previously notified cases ...	90 of whom 4 were latent	13	2	105
Sent by School Medical Officer for Diagnosis ...	34 of whom 8 were latent	1	20	55
Sent by Local Medical Practitioners for Diagnosis ...	100 of whom 8 were latent	1	29	130
House contacts ...	—	1	4	5
Suspected cases, other than house contacts ...	4	—	5	9
Totals ...	228	16	60	304

It will be seen that 130 cases were sent by local Medical Practitioners to the Dispensary Medical Officer for diagnosis. This is 13 more than in 1914. It shows that private practitioners appreciate the aid the Dispensary is able to give them, and are ready to avail themselves of that aid.

The School Medical Officer submitted 55 cases for diagnosis during 1915. Of these just over 40 per cent. were found to be non-tubercular.

Pulmonary Tuberculosis is a difficult disease to diagnose at one sitting, and many cases which seem to be highly suspicious, prove, on extended observation, to be healthy.

“Contacts” examination has, unfortunately, not been carried out. The time of the Dispensary Staff is wholly taken up in dealing with notified cases and those sent for diagnosis by practitioners.

#### DENTAL TREATMENT.

As the Tuberculosis Dispensary and the Clinic are situated in the same building, the Staff of the one can always help the Staff of the other in time of need.

All anæsthetics necessary in the Clinic are given by the Tuberculosis Officer, whilst Tuberculosis Nurses assist at the Clinic operations.

The School Dentist, on the other hand, undertakes any Dental treatment which may be necessary in Tuberculosis patients.

TABLE SHOWING DENTAL WORK DONE FOR TUBERCULOSIS PATIENTS DURING 1915.

Consultations between Tuberculosis Officer and Dentist					90
No of patients treated					80
,, teeth extracted					157
,, ,, filled					35
,, general anæsthetics given...					27
,, local ,, ,,					24

## RESULTS OF SANATORIUM TREATMENT.

### PULMONARY CASES.

Tables giving the results of treatment in patients suffering from Pulmonary Tuberculosis who were discharged from the Sanatorium during the year will be found on pages 51--56.

From these tables it will be seen that—

30 patients were admitted in the First Stage of the disease.								
25	,,	,,	,,	,,	Second	,,	,,	,,
99	,,	,,	,,	,,	Third	,,	,,	,,

In 37 patients the disease was of comparatively short duration; 44 were advanced, but showed prospects of considerable improvement and, perhaps, a return to working capacity; 51 were considered to be permanently incapable of work; and 22 were thought not to be likely to live longer than 6 months.

On discharge, in 11 cases the disease was arrested; 73 showed much improvement and had prospects of ultimate arrest under Dispensary treatment; 34 were improved; 17 showed no change; 8 were worse; and 11 died in the Sanatorium.

As regards working capacity on leaving the Sanatorium, 24 showed no impairment, 43 showed slight impairment; 31 were incapable of heavy work, but could do light labour; 31 were incapable of work of any kind; and in 14 the outlook was considered hopeless.

#### NON-PULMONARY CASES.

Six cases received treatment in the Sanatorium; 2 were cured, 3 greatly improved, and 1 improved. Three patients were admitted who were afterwards found to be non-tubercular; 1 died from Carcinoma of the Larynx and 2 were removed to Hospital.

### RESULTS OF TREATMENT IN PATIENTS DISCHARGED FROM THE MUNICIPAL SCHEME DURING 1915.

#### PULMONARY CASES.

Treatment was concluded under the Scheme in 193 cases during the year. When these patients first came under observation 83 were in the First Stage, 35 were in the Second Stage, and 75 in the Third Stage.

Eighty-one of these cases were of recent onset; 57 were advanced, but showed prospects of considerable improvement, with a fair average of them returning to work; 39 were very advanced, and with no prospects of a return of working capacity; whilst 18 were expected to die within six months.

On completion of treatment under the Corporation the disease was arrested in 86 cases, 43 patients showed great improvement, 23 were improved, there was no change in 22, and 19 became worse.

Ninety-nine were able to return to full work, 21 could undertake light work, 15 showed considerable loss of working capacity, 41 were unable to work, and in 20 death was expected before the expiration of six months.

#### NON-PULMONARY CASES.

Nineteen cases completed treatment during the year; 17 were cured and 2 considerably improved.

## TABULATED RESULTS OF TREATMENT IN PULMONARY CASES

The tables which are appended show the results of treatment in those patients who were discharged from the Borough Sanatorium during the year 1915. A separate set of tables show the results for those patients who were discharged from active treatment under the Municipal Scheme during the same period.

The patients have been placed in two groups, and show in separate tables, those with :—

(A) Tubercle Bacilli found in sputum.

(B) Tubercle Bacilli not found in sputum.

The patients in each group have been classified as to the stage of the disease at the time of coming under treatment; males and females being shown separately. The classification adopted being the Turban-Gerhardt (Imperial Board of Health). They have further been classified according to the method adopted in the Astor Report.

On discharge they have been classified according to their economic condition (working capacity) and also as to their physical condition.

The following are the details of the classification adopted :—

### \*TURBAN-GERHARDT CLASSIFICATION (IMPERIAL BOARD OF HEALTH).

STAGE I.—Disease of slight severity, limited to small areas of one lobe; that, for instance, in case of infection of both apices, does not extend beyond the spine of scapula and the clavicle, or in the case of affection of one apex, frontal, beyond the second rib.

STAGE II.—Disease of slight severity, more extensive than I., but affecting at most the volume of one lobe; or severe disease, extending at most to the volume of one half lobe.

STAGE III.—All cases extending beyond II., and all such with considerable cavities.

### †CLASSIFICATION OF PATIENTS, ASTOR REPORT.

- (1) Cases in which the disease can be diagnosed or is strongly suspected, but in which there is no evident impairment of the working capacity.
- (2) Cases of recent onset with some impairment of the working capacity, but without marked evidence of ill-health.
- (3) Cases of recent onset with evidence of acute illness.
- (4) Cases of a longer history of illness. In some of these cases permanent arrest of the disease may be hoped for, but in the majority, restoration to full working capacity for more than a comparatively short period is not to be looked for.
- (5) Cases in which there is a permanent loss of working capacity. Many of these patients live for a considerable period in a condition of chronic ill-health.
- (6) Cases in which a fatal termination within six months is probable.

### ‡ECONOMIC CONDITION ON DISCHARGE FROM TREATMENT.

- (1) No evident impairment of working capacity.
- (2) Some impairment of working capacity.
- (3) Marked loss of working capacity.
- (4) Very marked loss of working capacity.
- (5) Very marked loss of working capacity and progress unfavourable.
- (6) Probable fatal termination within 6 months.

TABLE I.

CLASSIFICATION OF THE IMMEDIATE RESULTS OF TREATMENT IN THOSE INSURED PATIENTS SUFFERING FROM PULMONARY TUBERCULOSIS DISCHARGED FROM THE BOROUGH SANATORIUM DURING 1915.  
(A) Tubercle Bacilli present.

Classification of Cases Turban- Gerhardt.	On Admission.						On Discharge.						Total	
	Classification (Astor).						Physical Condition.							
	Total						Total							
	1	2	3	4	5	6	Disease arrested.	Much improv'd	Im- proved.	No change.	Worse.	Died.		
Stage I.—														
Males	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Females	2	1	...	1	...	...	3	...	...	...	1	...	...	4
Stage II.—														
Males	...	...	1	4	1	...	1	1	2	1	1	...	...	6
Females	...	...	...	5	...	...	1	1	1	1	1	...	...	5
Stage III.—														
Males	...	...	...	3	21	9	33	3	6	4	9	3	8	33
Females	...	...	...	4	9	4	17	...	2	4	5	4	2	17
Totals	2	1	1	17	31	13	65	10	9	8	18	9	11	65

## (B) Tubercle Bacilli absent.

Classification of Cases Turban- Gerhardt.	On Admission.						Total	On Discharge.						Total			
	Classification (Astor).							Total	Physical Condition.								
	1	2	3	4	5	6			Disease arrested.	Much improv'd	Im- proved.	No change.	Worse.		Died.		
Stage I.—																	
Males ... 17	13	1	2	...	...	...	33	27	4	1	1	...	...	8	1	...	33
Females ... 23	13	1	9	...	...	...	46	42	2	2	...	...	...	9	1	...	46
Stage II.—																	
Males ... 1	1	1	1	8	...	...	11	9	...	...	1	...	1	5	1	...	11
Females ... 13	2	1	10	...	...	...	13	10	1	1	1	...	...	2	1	...	13
Stage III.—																	
Males ... 13	...	...	2	8	...	3	13	...	3	2	2	2	4	2	1	3	13
Females ... 12	...	...	1	2	7	2	12	...	2	1	4	1	4	5	2	...	12
Totals ... 41	29	7	39	7	5	...	128	88	12	7	9	3	9	31	7	5	128

SUMMARY OF THE TWO PRECEDING TABLES.

Classification of Cases Turban- Gerhardt.	On Admission.						Total	Economic Condition.						Total	On Discharge.					Total	
	Classification (Astor)							Total	Physical Condition.												
	1	2	3	4	5	6			Disease arrested.	Much improv'd.	Im- proved.	No change.	Worse.		Died.						
Stage I.—																					
Males ... 17	13	1	2	...	...	...	33	27	4	1	1	...	...	33	24	8	1	...	...	...	33
Females ... 25	14	1	10	...	...	...	50	45	2	2	...	...	1	50	38	9	1	...	2	...	50
Stage II.—																					
Males ... 1	1	2	12	1	...	...	17	12	...	...	3	1	1	17	6	6	3	1	1	...	17
Females ... 18	2	1	15	...	...	...	18	11	2	1	3	1	...	18	11	3	2	1	1	...	18
Stage III.—																					
Males ... 46	...	...	2	11	21	12	46	3	9	6	11	5	12	46	6	10	10	12	8	...	46
Females ... 29	...	...	1	6	16	6	29	...	4	5	9	5	6	29	1	7	6	8	7	...	29
Totals ... 193	30	8	56	38	18		193	98	21	15	27	12	20	193	86	43	23	22	19	...	193

TABLE II.

CLASSIFICATION OF THE IMMEDIATE RESULTS OF TREATMENT IN THOSE PATIENTS SUFFERING FROM PULMONARY TUBERCULOSIS WHO WERE DISCHARGED FROM ACTIVE TREATMENT UNDER THE MUNICIPAL SCHEME DURING THE YEAR 1915.

(A) Tubercle Bacilli present.

Classification of Cases Turban- Gerhardt.	On Admission.						Total	Economic Condition.					Total	Physical Condition.						Total							
	Classification (Astor).							Total						Physical Condition.													
	1	2	3	4	5	6		1	2	3	4	5		6	Disease arrested.	Much improv'd	Im- proved.	No change.	Worse.		Died.						
Stage I.—																											
Males ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Females ...	1	2	...	1	...	...	4	1	1	1	...	...	1	2	...	...	...	1	...	...	...	...	...	...	...	...	
Stage II.—																											
Males ...	...	...	1	6	...	...	7	3	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Females ...	...	1	...	4	...	...	5	...	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Stage III.—																											
Males ...	...	...	...	7	29	12	48	1	17	9	7	2	7	...	...	...	...	...	...	...	...	...	...	...	...	...	
Females ...	...	...	...	7	15	5	27	...	3	4	10	5	2	...	...	...	...	...	...	...	...	...	...	...	...	...	
Totals ...	1	3	1	25	44	17	91	5	24	16	19	7	10														

## (B) Tubercle Bacilli absent.

Classification of Cases Turban- Gerhardt.	On Admission.						Total	On Discharge.						Total				
	Classification (Astor).							Total	Physical Condition.									
	1	2	3	4	5	6			Disease arrested.	Much improv'd	Im- proved.	No change.	Worse.		Died.			
Stage I.—																		
Males	...	6	1	2	1	...	10	6	3	1	...	...	4	5	1	...	...	10
Females	...	1	6	4	5	...	16	7	7	2	...	...	2	12	1	...	...	16
Stage II.—																		
Males	...	...	...	1	5	...	6	3	2	...	...	1	...	4	1	...	...	6
Females	...	3	...	3	1	...	7	2	4	1	...	...	...	6	1	...	...	7
Stage III.—																		
Males	...	...	2	4	2	1	9	1	3	...	...	4	3	2	3	...	...	9
Females	...	...	8	...	3	4	15	...	...	11	...	...	...	11	2	...	2	15
Totals	...	1	15	16	19	7	63	19	19	15	...	5	3	40	9	1	2	63



**CANCER.**

The deaths from Cancer amounted to 150 during the year. This is the highest number recorded in the Borough in any one year, and is 25 higher than the total recorded last year.

The death-rate from the disease was 1.28 per 1,000 of the population, compared with an average of 0.99 for the previous 10 years.

The number of deaths of males and females and the death-rate from this disease of residents of the Borough since 1905 is appended :—

			Males.	Females.	Total.	Death Rate.
1905	...	...	36	56	92	0.83
1906	...	...	35	67	102	0.91
1907	...	...	51	74	125	1.10
1908	...	...	38	69	107	0.91
1909	...	...	52	53	105	0.90
1910	...	...	61	74	135	1.15
1911	...	...	60	65	125	1.05
1912	...	...	54	55	109	0.90
1913	...	...	53	86	139	1.12
1914	...	...	60	65	125	1.01
1915	...	...	71	79	150	1.28

The incidence of deaths from Cancer in the Municipal wards, since 1911, is shown in the following table :—

Table showing death-rate from Cancer in the Municipal wards for the year 1915, and the average death-rate for the four previous years, 1911 to 1914 :—

Ward.			Death-rate, 1915.	Average Death-rate, 4 years, 1911—1914.
1. Town	...	...	1.84	1.22
2. St. Marys	...	...	1.07	0.88
3. Northam	...	...	1.03	1.01
4. Trinity	...	...	1.30	1.13
5. Newtown	...	...	1.41	0.93
6. All Saints	...	...	1.14	1.10
7. Bevois	...	...	1.80	1.42
8. Banister	...	...	1.50	1.40
9. Freemantle	...	...	1.46	1.00
10. Millbrook	...	...	1.17	0.92
11. Shirley	...	...	1.24	0.84
12. Portswood	...	...	0.87	0.89
13. St. Denys	...	...	1.08	0.62
Borough	...	...	1.28	1.04

The localization of the disease in those persons who died from Cancer during 1915 is shown in the following table:—

				Males.	Females.	Total.
Lips	...	...	...	1	—	1
Mouth	...	...	...	4	—	4
Tongue	...	...	...	4	1	5
Jaw	...	...	...	2	—	2
Æsophagus	...	...	...	6	1	7
Stomach	...	...	...	11	7	18
Pylorus	...	...	...	1	—	1
Liver	...	...	...	5	8	13
Gall Bladder	...	...	...	1	2	3
Intestines	...	...	...	6	5	11
Colon	...	...	...	4	8	12
Rectum	...	...	...	9	6	15
Peritoneum	...	...	...	—	3	3
Uterus	...	...	...	—	11	11
Cervix	...	...	...	—	2	2
Ovary	...	...	...	—	2	2
Breast	...	...	...	—	19	19
Skin	...	...	...	—	1	1
Prostate	...	...	...	3	—	3
Kidney	...	...	...	—	2	2
Bladder	...	...	...	1	—	1
Spleen	...	...	...	2	—	2
Cervical Glands	...	...	...	3	—	3
Larynx	...	...	...	3	1	4
Lung	...	...	...	1	—	1
Aorta	...	...	...	1	—	1
Mediastinum	...	...	...	1	—	1
Multiple	...	...	...	2	—	2
				<hr/> 71	<hr/> 79	<hr/> 150

# ISOLATION HOSPITAL.

## Cases Isolated for Treatment.

THIS TABLE SHOWS ALL ADMISSIONS TO THE ISOLATION HOSPITAL AND HOSPITAL SHIP, AND INCLUDES ALL CASES REMOVED FROM VESSELS IN THE PORT, CASES ADMITTED FROM NEIGHBOURING DISTRICTS, AND MILITARY CASES.

DISEASE NOTIFIED OR SUSPECTED.	Cases Remaining in Hospital, 1st January, 1915.	Total number of Admissions.	Diagnosis confirmed at Hospital.	Cases Admitted not proving to be disease notified or suspected.	Discharged.	Died.	Remaining in Hospital, 31st Dec., 1915.	Average number of days in Hospital (Cases treated to a conclusion.)	Case Mortality (Actual cases).
Small Pox	—	—	—	—	—	—	—	—	—
Scarlet Fever	29	338	330	8	315	3	49	32.30	0.91
Diphtheria	27	349	337	12	305	34	37	28.20	10.10
Enteric Fever	1	37	34	3	29	3	6	44.00	8.80
Measles	2	62	62	—	64	—	—	—	—
Tuberculosis	33	162	162	—	150	10	35	—	6.20
Cerebro-Spinal Fever	—	18	16	2	11	7	—	—	43.80
Chicken Pox	—	8	8	—	8	—	—	—	—
Mumps...	—	9	9	—	9	—	—	—	—
Erysipelas	—	2	2	—	1	—	1	—	—
Other Diseases	1	8	8	—	8	1	—	—	—
Total	93	993	968	25	900	58	128	—	—

## DIPHThERIA.

Of the 349 cases which were admitted, 12 were found not to be suffering from the disease. They were diagnosed as follows:—Scarlet Fever 4, Tonsillitis 7, Septic Throat 1.

Details of fatal cases (34):—

Initials.	Age.	Day of Disease on Admission.	No. of days in Hospital.	Remarks.
A.C.	9	?	2	Moribund very sceptic.
G.R.	6	5	5 hrs.	Very sceptic, delirious.
W.C.	3y. 9ms.	2	14 days	Extensive exudation—glands enlarged.
B.W.	3	6	5 „	Broncho-pneumonia.
H.K.	7	5	14 „	Cardiac failure.
G.B.	8	7	10 „	Pneumonia; Tracheotomy
G.H.	6	?	7 „	Toxaemia.
W.B.	5	4	17 „	Respiratory and palatal paralysis.
G.F.	1y. 1m.	4	8 „	Broncho-pneumonia, nasal discharge.
T.T.	8	?	13	Extensive exudation—Glands; Vomiting.
H.B.	10	7	1	Hæmorrhagic case, vomiting.
D.P.	3	5	4	Moribund on admission.
M.B.	6½	7	7	Very septic, trachæotomy
L.G.	7	3	43	Glands—palatal paralysis
D.H.	10	4	1	Moribund on admission.
W.W.	5	3	6	Hæmorrhagic case—very septic.
G.B.	8	4	3	Very sceptic.
A.P.	9	?	10 minutes	Do.
H.L.	5	4	4 hours	Do.
A.B.	?	?	4	Extensive exudation.
F.M.	9	2	11	Pneumonia, Tracheotomy
R.S.	8	5	1	Glands much enlarged—vomiting.
C.W.	10	4	2	Glands much enlarged—nasal discharge.
E.D.	4	4	1	Extensive exudation—larynx involved.
S.A.	7	3	2	Extensive exudation—glands.
J.H.	6	5	7	Extensive exudation—Cardiac failure.
D.B.	4	2	12	Extensive exudation.
B.M.	7	2	12	Extensive exudation—glands.
T.T.	4	3	3	Hæmorrhagic case, very septic.
R.H.	13	4	48	Palatal and respiratory paralysis.
F.H.	13	4	7	Enlarged glands, vomiting
H.K.	7	5	14	Vomiting, cardiac failure
K.G.	8	?	10	Do.
W.P.	8	3	7	Hæmorrhagic case—glands enlarged.

Of these deaths 18 were males and 16 females.

The operation of Tracheotomy was performed in 7 cases, of which 3 died.

### SCARLET FEVER.

Of the 338 cases admitted, 8 were found not to be suffering from the disease, and were diagnosed thus: Measles, 5; Sunburn, 3.

Four cases were sent in to the hospital as Diphtheria, and were found to be Scarlet Fever.

Operations for the removal of Tonsils and Adenoids were performed on 6 cases, or 1.8 per cent. of the total number of cases admitted.

The number of cases suffering with purulent nasal discharge was 53, and with purulent ear discharge 16.

### ENTERIC FEVER.

Admitted.	Diagnosis Confirmed.	Discharged.	Died.	Case Mortality.
37	34	28	3	8.82%

Average number of days in Hospital: 44.0.

The three cases not proving to be Enteric Fever were diagnosed in Hospital thus: Neurasthenia 1, Melancholia 1, and Lobar Pneumonia 1.

### MEASLES.

Admitted.	Diagnosis Confirmed.	Discharged.	Died.
72	72	72	0

### TUBERCULOSIS.

Admitted.	Diagnosis Confirmed.	Discharged.	Died.	Case Mortality.
162	162	148	10	6.20%

### OTHER DISEASES.

Admitted.	Discharged.	Died.	Diagnosis Confirmed.
45	39	8	43

## BACTERIOLOGICAL WORK.

The following bacteriological examinations were carried out during the year:—

Serum for Widal Re-action	...	...	39
Other Serum, etc., Examinations	...	71	
Swabs for Diphtheria	...	...	1392
Examinations for Tubercle Bacilli—			
(A) Sputum	...	...	68
(B) Urine	...	...	0
Examination for Pathological Organisms of—			
(A) Fæces	...	...	20
(B) Urine	...	...	3
			1593

Included in the above are the following examinations made for Medical Practitioners in the Borough: For Diphtheria Bacilli, 127; for Widal's, 17; for Tubercle Bacilli in Sputum, 51.

## ISOLATION HOSPITAL AND HOSPITAL SHIP.

The following Table shows the Districts from which cases were admitted during the year 1915.

Disease.	Boro'.	Port.	New Forest Rural.	Itchen Urban.	South Stone-ham & Fare-ham Rural.	Hursley and Romsey Rural.	Milit'ry Cases.	Total.
Small Pox	...	...	...	...	...	...	...	...
Scarlet Fever	262	1	2	2	1	5	65	338
Diphtheria	221	1	31	2	2	...	92	349
Enteric Fever	14	14	...	...	...	...	9	37
Measles	...	6	...	...	...	...	56	62
Tuberculosis	162	...	...	...	...	...	...	162
Cerebro - Spinal Fever	8	...	1	...	...	...	9	18
Chicken Pox	...	6	...	...	...	...	2	8
Mumps	...	5	...	...	...	...	4	9
Erysipelas	...	1	...	...	...	...	1	2
Other Diseases	8	...	...	...	...	...	...	8
Total	675	34	34	4	3	5	238	993

Comparative Mortality of Cases, occurring in the Borough,  
treated in the Isolation Hospital and outside.

Disease.	Whole Borough		Treated in the Isolation Hospital.		Treated at Home and in other Institutions.	
	Total Number of cases notified.	Case Mortality per cent.	Number of cases.	Case Mortality per cent.	Number of cases.	Case Mortality per cent.
Scarlet Fever ...	430	0.47	262	0.38	168	0.60
Diphtheria ...	346	11.27	221	12.67	125	8.80
Enteric Fever ...	25	32.00	14	28.57	11	36.36
Totals ...	801	6.12	497	6.66	304	5.26

**OUTBATHING STATION AND AMBULANCE SHED, AND  
DISINFECTOR, WEST QUAY.**

These premises are used for the purpose of disinfection and bathing of persons who have been in contact with infectious disease, particularly for contacts of cases of infectious disease landed by vessels arriving in the Port.

The buildings also contain an observation ward for suspicious cases of sickness arriving in the Port, and the premises are further used as a discharge block in connection with the Hospital Ship.

The following is a list of the contacts and the discharged cases from the Hospital Ship bathed and disinfected at West Quay during the year:—

Enteric Fever contact ...	...	...	1
Scarlet Fever contacts ...	...	...	74
Measles contacts ...	...	...	9
Chicken Pox contacts ...	...	...	9
Verminous cases ...	...	...	13
Scabies cases ...	...	...	30

Owing to the School Clinic now being open to receive cases no children were treated at West Quay in connection with the Medical Inspection of School Children.

A large increase in the amount of disinfection work was done at the Disinfecting Station at West Quay during the year, owing to the disinfection of bedding, etc., being undertaken for the Admiralty and Military Authorities.

Over 325,730 articles were disinfected during the year, being an increase of 213,081, compared with 1914, and on many occasions it was necessary to keep both of the Steam Disinfectors working day and night.

The following is a list of articles disinfected in the Steam Disinfector at West Quay, including articles removed from the Port:—

Beds and Mattress ...	...	...	21,079
Bolsters and Pillows ...	...	...	20,396
Blankets and Quilts ...	...	...	115,632
Sheets ...	...	...	32,353
Counterpanes ...	...	...	3,598
Books ...	...	...	1,766
Sundries ...	...	...	130,916
<hr/>			
Total ...	...	...	325,730
<hr/>			

### **MIDWIVES ACT, 1902.**

The number of Midwives who notified their intention of practising in the Borough during the year amounted to 33, a decrease of 6, compared with 1914.

One of the Midwives resides outside the Borough, but occasionally attends cases inside the boundary.

Nineteen of the Midwives were trained nurses, having obtained their certificates by reason of passing an examination in Midwifery, the remaining 14 were untrained, having obtained certificates owing to their having been in practice one year before the passing of the Act.

The number of women in childbirth who were delivered by Midwives during the year amounted to 2,004, of which 1,938 were live births and 66 still births. The total number of births registered during the same period was 2,707, the percentage of live births attended by Midwives was, therefore, 71.6.

The following table shows the percentage of women in childbirth attended by Midwives and the percentage of still births to total births attended during the last 6 years:—

Year.	Number of Live Births Registered.	Number of Live Births attended by Midwives.	Number of Still Births attended by Midwives.	Percentage of Live Births attended by Midwives to Births registered during same period.	Percentage of Still Births among Births attended by Midwives.
1910	2926	1960	58	67.0	2.9
1911	2849	1973	63	69.4	3.1
1912	2806	1996	65	71.1	3.2
1913	2957	2023	56	68.4	2.7
1914	2949	2008	70	68.1	3.4
1915	2707	1938	66	71.6	3.3

The following notices were received and inspections made during the year:—

Notices received of intention to practice ...	33
„ „ change of address ...	2
„ „ sending for medical help ...	181
„ „ still births ...	43
Inspections and visits... ..	57

The following is a list of complications for which medical help was requisitioned during the year:—

#### MOTHER.

Abnormal Presentation ... ..	16
Prolonged Labour ... ..	31
Ruptured Perinæum ... ..	16
Ante or Post Partum Hæmorrhage ...	13
Retained Placenta or Membranes ...	11
Rise of Temperature ... ..	9
Abortion or Premature Birth ... ..	13
Exhaustion ... ..	2
Still Birth ... ..	1
Puerperal Insanity ... ..	1
Eclampsia ... ..	2
Erysipelas ... ..	1
Other Causes ... ..	10

## CHILD.

Opthalmia Neonatorum ...	...	...	20
Pemphigus ...	...	...	4
Feebleness of Child ...	...	...	17
Talipes ...	...	...	2
Hare Lip ...	...	...	1
Other Causes ...	...	...	11
			—
			55
			—

Inspections were made during the year at the residences of the Midwives for inspection of registers, bags and appliances. As a rule these were found in good order; notice to comply with the Rules of the Central Midwives' Board was given in those cases in which neglect was found.

As in previous years lectures were occasionally given to Midwives in the Borough by members of the Medical Staff of the Health Department in connection with the Midwives' Association.

Four cases of Puerperal Fever were notified, being equal to a rate of 0.04 per 1,000 of the population, which compares favourably with the rate of 0.06 for England and Wales, and 0.08 for the County Boroughs of England.

The particulars of the cases notified and deaths occurring from Puerperal Septicæmia during the year were:—

January 18th.—A.L.Le.E., Bullar Street, aged 31 years. The birth occurred on January 9th and was attended by a trained nurse. The patient was taken ill January 14th, when medical help was requisitioned, and the case was removed to the Parish Infirmary January 16th. Recovered.

May 3rd.—E.L., Craven Street, aged 34 years. The patient was delivered by an old, untrained Midwife on 10th April. On April 20th, after the Midwife had ceased attendance, the patient, being unwell, called in a medical practitioner, who notified the case as Puerperal Septicæmia on May 3rd. Died.

May 8th.—J.D., Cosens Court, aged 35 years. The birth occurred on the 4th May, and was attended by an old, untrained Midwife. Medical help was requisitioned on May 8th, and the patient removed to the Parish Infirmary on the same date. Recovered.

June 2nd.—K.E.F., Edward Road, aged 30 years, was delivered of a still born child on May 30th by a medical man. The patient died a few hours afterwards.

August 31st.—M.D., Cook Street. Medical man in attendance at birth. Recovered.

In all of the above cases the Midwives and Nusres were given a disinfecting bath at the Isolation Hospital on ceasing attendance on the patient, and thorough disinfection of all articles likely to convey infection was carried out.

## GENERAL ROUTINE WORK.

### Summary of Inspections and of Work carried out.

General Inspection of Houses and re-visits ...	...	23,334
Inspections on complaint ...	...	257
„ under the Housing, Town Planning, &c., Act, including the supervision of work in progress ...	...	4,198
„ of Factories... ..	...	37
„ of Workshops and Workplaces ...	...	1,810
„ of Laundries ...	...	90
„ of Bakehouses ...	...	558
„ under the Shops Act ...	...	1,419
„ of Slaughterhouses ...	...	2,738
„ of Butcher Shops ...	...	3,966
„ of Sausage Factories ...	...	811
„ of Wholesale Stores, Markets, &c. ...	...	1,234
„ of Fish Shops ...	...	815
„ of Dairies, Cowsheds, and Milkshops ...	...	972
„ of Ice Cream Factories and Shops ...	...	121
„ of Common Lodging Houses ...	...	1,135
„ of Houses Let in Lodgings ...	...	377
„ of Courts and Alleys ...	...	1,097
„ of Stable Yards, Mews, &c. ...	...	1,404

Visits re Infectious Disease ... ..	2,823
,, re Non-notifiable Infectious Disease (School Absentees) ... ..	1,307
,, re Notification of Births... ..	1,141
,, re Void Houses ... ..	285
,, re Weekly Death Returns ... ..	69
,, to Schools ... ..	99
Houses and Premises Disinfected ... ..	1,029
Preliminary Notices served for the Abatement of Nuisances ... ..	1,210
Legal Notices served for the Abatement of Nuisances ... ..	507
Nuisances abated by Verbal Notice ... ..	1,303
Drains tested with Smoke ... ..	168
,, ,, ,, Water ... ..	239
,, found Defective ... ..	111
,, cleared and repaired ... ..	466
,, re-constructed ... ..	244
,, re-trapped ... ..	360
,, intercepted from sewer and ventilated ... ..	110
Inspection chambers provided to house drains ... ..	110
New soil pipes fixed on external walls of houses ... ..	51
Water closets re-constructed ... ..	93
Urinals re-constructed and provided with means of flushing ... ..	14
New water-closet pans fixed ... ..	361
Water laid on to water closets ... ..	136
Ventilating shafts of house drains repaired, &c., ... ..	138
Bath, sink waste-pipes, stack-pipes, &c., disconnected from drains ... ..	201
Sanitary sinks fixed in houses ... ..	181
Premises drained to sewer ... ..	3
Cesspools abolished ... ..	1
Damp walls of houses remedied... ..	339
Houses cleansed and white-washed ... ..	539
Roofs of houses repaired... ..	323
Eaves guttering and stack-pipes repaired ... ..	214
Rooms of houses efficiently ventilated ... ..	167
Window sashes made to open ... ..	191
Flooring, windows, etc., repaired ... ..	302
Ground floor ventilation provided under rooms ... ..	140
Means of light and ventilation provided to water closets ... ..	6
Yards paved and drained ... ..	194
Yard paving repaired ... ..	265
Sanitary dust-bins provided to houses... ..	137
Overcrowding in houses abated ... ..	6

Courts re-limewashed	...	...	...	...	20
Nuisances from keeping animals, etc., abated	...	...	...	...	34
Manure vaults constructed	...	...	...	...	5
Manure and offensive matter removed	...	...	...	...	183
Smoke nuisances abated	...	...	...	...	1
Cesspools emptied	...	...	...	...	6
Streams cleansed	...	...	...	...	1
Stables paved and drained	...	...	...	...	1

### **SOUTHAMPTON CORPORATION ACT, 1910.**

During the year 229 notifications were received with respect to the repair and alteration of drainage in compliance with Section 51 of the above Act.

The following works were carried out and supervised by the Department after notification:—

Premises drained to the sewer	...	...	...	...	3
Drains re-constructed	...	...	...	...	116
„ cleared	...	...	...	...	103
„ repaired	...	...	...	...	106
„ ventilated	...	...	...	...	65
Intercepting traps fixed	...	...	...	...	59
Inspection chambers constructed	...	...	...	...	76
New traps fixed	...	...	...	...	162
New soil pipes fixed	...	...	...	...	33
Bath, sink waste pipes, &c., disconnected from drains	...	...	...	...	31
Sanitary sinks provided	...	...	...	...	25
Water closets re-constructed	...	...	...	...	39
Water laid on to water closets	...	...	...	...	51
New pans fixed to water closets	...	...	...	...	144
Urinals re-constructed	...	...	...	...	6
External light and ventilation provided to water closets	...	...	...	...	6
Stables paved and drained	...	...	...	...	1
Flushing apparatus provided to urinals	...	...	...	...	4

### **DRAINAGE UNDER THE NEW BUILDING BYE-LAWS.**

During the year 161 plans were submitted, of which 146 were approved and 15 disapproved.

The approved plans comprise:—

Dwelling houses ... ..	70
Stables ... ..	2
Alterations and additions ... ..	52
Miscellaneous buildings ... ..	62
Houses completed ... ..	124
Stables ... ..	4
Alterations and additions ... ..	30
Miscellaneous buildings ... ..	11
Number of inspections during progress of work ...	1,322
„ drains tested and re-tested... ..	369

### **POLLUTED WELLS.**

Three samples of water were taken and submitted to the Public Analyst. The same were found on analysis to be polluted and unfit for drinking or domestic purposes.

Notices were served on the owners of the premises on which the wells were situated to provide a proper supply of water to their houses.

### **OFFENSIVE TRADES.**

The following offensive trades are carried on in the Borough: Gut Scraper 1, Tallow Melter 1, Tripe Boiler 1, Dealers in Rags, Bones, etc., 7, Fish Friers 25.

The premises are regularly inspected and were found during the past year generally in a satisfactory condition.

Proceedings were taken for an effluvium nuisance, the defendant being fined 40/-.

### **SLAUGHTERHOUSES.**

There are 34 Slaughterhouses in the Borough, 33 of which are in use.

Two thousand seven hundred and thirty-eight visits were made, and the premises generally were kept in a satisfactory condition.

## MEAT AFFECTED BY TUBERCULOSIS SEIZED OR SURRENDERED.

	In Slaughter- houses.	In Shops.	Weight.
Carcases of Beef ... ..	3	—	1,963 lbs.
„ Pork ... ..	4	—	860 lbs.
Part carcases of Beef ... ..	22	7	920 lbs.
„ „ Pork ... ..	38	10	480 lbs.

## FOOD INSPECTION.

In the inspection of food the following visits were made to premises where food is prepared, stored, or sold:—

Slaughterhouses ... ..	2,738
Butcher shops ... ..	3,966
Sausage factories ... ..	811
Wholesale stores, markets, &c. ...	1,234
Fish shops ... ..	815
Ice cream factories and shops ...	121

The following is a summary of the diseased or unsound food destroyed during the year:—

### BEEF.

Whole carcases ... ..	3
Livers ... ..	34
Lungs ... ..	10
Hearts ... ..	4
Tongues ... ..	3
Mesenteries ... ..	3
Stomachs ... ..	3
Heads ... ..	3
Tails ... ..	5
Spleens ... ..	16
Sundry pieces of beef... ..	890 lbs.
Total weight of beef... ..	3,946 lbs.

## PORK.

Whole carcasses	...	...	...	4
Heads	...	...	...	18
Offals	...	...	...	13
Livers	...	...	...	17
Plucks	...	...	...	142
Sundry pieces of pork...	...	...	...	548 lbs.
Total weight of pork	...	2,312	lbs.	

## MUTTON AND LAMB.

Whole carcasses	...	...	...	3
Plucks	...	...	...	7
Lungs	...	...	...	7
Livers	...	...	...	16
Sundry pieces of mutton	...	...	...	118 lbs.
Total weight...	...	...	...	348 lbs.

## VEAL.

Whole carcase	...	...	...	1
Sundry pieces of veal...	...	...	...	10 lbs.
Total weigh of veal...	...	...	...	64 lbs.

## FRUIT, VEGETABLES, ETC.

16 bags of Potatoes	
3,400 lbs of Cherries	
2 crates of Gooseberries	
860 lbs. of Plums	
22 crates of Pears	
822 lbs. of Apples	
616 lbs. of Oranges	
170 lbs. of Tomatoes	
400 Cocoanuts	
18 hampers of Turnips	
41 bundles of Asparagus	
1 barrel of Turkeys	
4 Ducks	
190 Rabbits	
Total weight	... 9,924 lbs.

## FISH.

Haddock	...	...	...	...	6 boxes
Mackerel	...	...	...	...	47 „
Herrings	...	...	...	...	15 barrels
Whiting	...	...	...	...	2 boxes
Bloaters	...	...	...	...	57 „
Kippers	...	...	...	...	57 „
Whitebait	...	...	...	...	19 „
Pollack	...	...	...	...	2 „
Salmon	...	...	...	...	2 „
Sprats	...	...	...	...	11 barrels

113 lbs. of Mixed Fish

120 tins of Prawns

1 bag of Shrimps

14 bags of Winkles

150 lbs. of Lobsters

Total weight of Fish ... 23,460 lbs.

### DAIRIES, COWSHEDS, AND MILKSHOPS ORDER, 1885-1886.

There are 223 purveyors of milk, including 8 cowkeepers, registered in the Borough. The total also includes 16 purveyors of milk who reside outside the Borough. During the year 4 purveyors of milk have ceased to sell milk, and their names have been removed from the Register.

One cowkeeper has been registered in accordance with the above orders.

One application for registration has been received from a purveyor of milk residing outside of the Borough. The cleansing of dairies, cowsheds, and milkshops has been carried out in accordance with the Regulations, and various nuisances abated.

PARTICULARS.	Town Proper.	Shirley, Freemantle, and Millbrook.	Portwood and Bitterne Park.	Outside the Borough.	Total.
Number of Cowkeepers on Register	...	6	2	...	8
Number of Purveyors of Milk on Register ... ..	108	53	38	16	215
Number of Purveyors of Milk registered during the year ...	5	1	...	1	7
Number of Cowkeepers registered during the year ... ..	...	1	...	...	1

## COWKEEPERS IN THE COUNTY BOROUGH OF SOUTHAMPTON.

L. B.	...	...	...	Mill Farm, Oakley Road.
C. B.	...	...	...	Royal Mail, Millbrook.
W. P.	...	...	...	Highcrown Street.
W. H.	...	...	...	Manor Farm Road.
W. M.	...	...	...	Blightmont Farm Millbrook.
A. H. W.	...	....	...	Cockroads Farm, Hill Lane.
H. C.	...	...	...	The Nest, Lordswood.
W. J.	...	...	...	Park Street, Shirley.

## NUISANCES ABATED IN DAIRIES, COWSHEDS, AND MILKSHOPS.

PARTICULARS.	Town Proper.	Shirley, Freemantle and Millbrook.	Portswood and Bitterne Park.	Total.
Milkshops cleansed and limewashed	176	68	58	302
Dairies           "           "   ...	40	38	18	96
Cowsheds       "           "   ...	...	24	8	32
Drains repaired   ...   ...   ...	2	4	1	7
New pans fixed   ...   ...   ...	3	1	...	4
Water supply to waterclosets   ...	...	1	...	1
New sinks fixed   ...   ...   ...	...	1	...	1
Roofs repaired   ...   ...   ...	4	2	2	8
Yard paving repaired   ...   ...	6	2	3	11
Dairies re-constructed   ...   ...	...	1	...	1
Totals ...   ...   ...	231	142	90	463

## FOOD AND DRUGS ACT.

Four hundred and forty-five samples were taken by the Inspectors during the year and submitted to the Public Analyst.

One hundred and forty-four were formally purchased in accordance with the Act and 301 were informal or test samples, 80 of the latter being milk samples.

Twenty-five, including 10 informal samples, were found to be adulterated.

Proceedings were taken in twelve cases, convictions being obtained in ten, one being dismissed, and the other withdrawn.

ARTICLE.						Number of Samples.	Genuine.	Adulterated.
Milk ...	...	...	...	...	...	200	185	15
Cream	...	...	...	...	...	13	13	...
Butter	...	...	...	...	...	107	97	10
Margarine	...	...	...	...	...	11	11	...
Cheese	...	...	...	...	...	35	35	...
Lard	...	...	...	...	...	31	31	...
Flour	...	...	...	...	...	16	16	...
Coffee	...	...	...	...	...	5	5	...
Ginger	...	...	...	...	...	5	5	...
Pepper	...	...	...	...	...	16	16	...
Rice	...	...	...	...	...	5	5	...
Honey	...	..	...	...	..	1	1	...
Totals						445	420	25

The following Table shows the number of articles analysed which were found to be adulterated, and the result of proceedings taken:—

No. of sample	Date.	Article.	Adulteration.	Result of Proceedings.
18	Jan. 27	Milk	9.76% of added water	Fined costs of court 4/-
34	Feb. 11	Butter	2.4% excess of water	Test sample; subsequent samples taken proved genuine
35	, 11	do.	2.06% „ „	Test sample; subsequent samples taken proved genuine
36	„ 11	do.	3.3% „ „	Test sample, see sample 71
71	„ 22	do.	3.29% „ „	Fined £2 and 6/6 costs
78	Mch. 4	Milk	3.33% deficient in fat	Fined costs of court 4/-
79	„ 4	do.	13.66% deficient in fat & 1.2% of added water	Fined £5 including costs
99	„ 19	do.	7.33% deficient in fat & 2.0% of added water	Fined £1 including costs
139	Apl. 15	do.	6.66% deficient in fat	Test sample; subsequent samples taken proved genuine
172	„ 26	do.	26.66% „ „	Test sample do.
174	„ 27	do.	3.5% of added water	Ditto
218	May 10	do.	10% deficient in fat	Ditto
223	„ 18	do.	13.33% deficient in fat	Ditto
241	June 1	Butter	100% margarine	Ditto
250	„ 4	Milk	10% deficient in fat	Case dismissed.
252	„ 4	do.	7.33% deficient in fat	Fined £5.
254	„ 12	Butter	100% margarine	Fined £5 and 4/- costs for unlabelled wrapper.
262	„ 17	do.	Ditto	Summons withdrawn, see sample 275
275	„ 22	do.	Ditto	Fined £5.
276	„ 25	do.	Ditto	Fined £1.
277	„ 25	do.	Ditto	Test sample.
338	Sep. 23	Milk	6% deficient in fat	Vendor cautioned
418	Nov. 25	do.	10.53% deficient in fat & 4.47% of added water	Fined £2
434	Dec. 14	do.	3.53% of added water	Vendor cautioned.
444	„ 29	do.	6.66% deficient in fat	Ditto

### THE PUBLIC HEALTH (MILK AND CREAM) REGULATIONS, 1913.

The following are particulars of work carried out under the above Regulations during the year 1915:—

#### 1. Milk; and Cream not sold as Preserved Cream.

	(a) Number of samples examined for the presence of a preservative.	(b) Number in which a preservative was reported to be present.
Milk ...	200	Nil
Cream ...	3	3

The nature of the preservative in each case in column (b) was Boric Acid. Two were test samples. Of subsequent samples taken one was labelled Preserved Cream and one was Preserved Cream unlabelled, a warning letter being sent in the latter instance.

## 2. Cream sold as Preserved Cream.

(a) Instances in which samples have been submitted for analysis to ascertain if the statements on the label as to preservatives were correct:—

(i)	Correct statements made	10
(ii)	Statements incorrect ...	Nil
		—
		10
		—

(b) Determinations made of milk fat in cream sold as preserved cream:—

(i)	Above 35 per cent. ...	10
(ii)	Below 35 per cent. ...	Nil
		—
		10
		....

(c) Instances where (apart from analysis) the requirements as to the labelling or declaration of Preserved Cream in Article V. (1) and the proviso in Article V. (2) of the Regulations have not been observed. Nil.

(d) Particulars of each case in which the Regulations have not been complied with, and action taken. Nil.

3. Thickening Substances.—Any evidence of their additions to cream or preserved cream. Action taken where found. Nil.

REMARKS.—The Boric Acid preservative varied from .15 to .48 per cent.

### **HOUSES LET IN LODGINGS.**

There are 40 houses in the Borough registered under the Bye-Laws relating to Houses Let in Lodgings.

Of this number six were placed upon the Register during the year, on application being made to the Local Authority.

Three hundred and seventy-seven visits were made, and the houses generally were kept in conformity with the Bye-Laws.

### **COMMON LODGING HOUSES.**

There are 16 common lodging houses in the Borough, with a registered accommodation for 552 persons.

Applications for the registration of all houses were made previous to the 31st December by the registered keepers in accordance with the provisions of the Southampton Corporation Act, 1910.

One thousand one hundred and thirty-five visits were made during the year, and the premises generally were kept in a satisfactory condition.

### **HOUSING, TOWN PLANNING, &c., ACT., 1909.**

During the year 732 houses were inspected under the provisions of the above Act.

The following is a list of Roads, Streets, etc., in which systematic inspection was continued, the number of houses inspected, and the number of notices served.

## HOUSE-TO-HOUSE INSPECTION

Road or Street.	Number of Houses Inspected.	No. of Notices served.	
		Sec. 15, H.T.P. Act.	Public Health Act.
Aberdeen Road ... ..	65	...	15
Anglesea Terrace ... ..	26	...	18
Brewhouse Court ... ..	9	...	8
Cecil Avenue ... ..	54	...	45
Clarence Street ... ..	58	...	34
Cozens Court ... ..	3	3	...
Dundee Road ... ..	26	...	14
Elm Road ... ..	10	...	10
Glebe Road ... ..	26	...	20
Floating Bridge Road ... ..	41	...	17
Handford Place ... ..	14	...	6
Kent Road ... ..	16	...	4
Kent Street ... ..	30	...	7
Lansdowne Hill ... ..	15	...	8
Nelson Street ... ..	25	...	20
North Road ... ..	45	...	28
Northam Street ... ..	57	...	26
Rochester Street ... ..	40	...	34
Stanley Road... ..	23	...	15
Trafalgar Road ... ..	22	...	16
Victoria Street ... ..	30	...	16
Westgate Terrace ... ..	12	...	11
Wolseley Road ... ..	56	...	43
Total ... ..	703	3	415

Representations were made in respect of 4 houses as being in a state so dangerous to health as to be unfit for human habitation, and closing orders were made in each instance. There were also two closing orders determined.

### REPRESENTATIONS MADE WITH REGARD TO DWELLING HOUSES.

The following is a list of the houses, giving the situation, number of orders made, dates, etc.:—

Situation of House.	Date.	Nature of Order made.	Further Action.
29, North Front ... ..	Feb. 4	Closing Order	Closing Order determined Nov. 4th, 1915 House demolish'd
1, Isaacs Court ... ..	do.	do.	do.
2, Isaacs Court ... ..	do.	do.	do.
48, Craven Street ... ..	Sept. 2	do.	do.

SUMMARY OF DEFECTS REMEDIED IN CONNECTION  
WITH INSPECTIONS MADE UNDER THE HOUSING  
TOWN PLANNING, &c., ACT., 1909.

Drains reconstructed	...	...	...	...	...	36
„ cleansed and repaired	...	...	...	...	...	29
„ retrapped	...	...	...	...	...	70
„ intercepted from sewer and ventilated	...	...	...	...	...	9
Inspection chambers provided to house drains	...	...	...	...	...	5
Soil pipes fixed on external walls	...	...	...	...	...	3
Water closets re-constructed	...	...	...	...	...	55
New pans fixed in water closets	...	...	...	...	...	61
Water laid on to water closets	...	...	...	...	...	18
Ventilating shafts of house drains repaired	...	...	...	...	...	11
Bath, sink waste-pipes, stack-pipes, etc., disconnected from the drains	...	...	...	...	...	38
Light and ventilation provided to water closets	...	...	...	...	...	3
Sanitary sinks fixed	...	...	...	...	...	41
Dampness in dwelling-houses remedied	...	...	...	...	...	134
Houses cleansed and white-washed	...	...	...	...	...	157
Roofs of houses repaired	...	...	...	...	...	101
Flooring, walls, etc., of houses repaired...	...	...	...	...	...	112
Window sashes made to open	...	...	...	...	...	104
Rooms of houses efficiently ventilated	...	...	...	...	...	48
Lighting of rooms improved	...	...	...	...	...	6
Ground floor ventilation provided under rooms...	...	...	...	...	...	49
Eaves, guttering, and stack-pipe repaired	...	...	...	...	...	83
Yards paved and drained	...	...	...	...	...	34
Yard paving repaired	...	...	...	...	...	77
Sanitary dustbins provided	...	...	...	...	...	69
Overcrowding in houses abated	...	...	...	...	...	2

**THE RAG FLOCK ACT, 1911.**

Eight samples of rag flock were taken and submitted to the Public Analyst, the result being as follows:—

No. of Sample.	Result of Analysis.
1	Chlorine as Chlorides, 7.5 parts per 100,000
2	„ „ 4.0 „ „
3	„ „ 5.3 „ „
4	„ „ 6.1 „ „
5	„ „ 11.0 „ „
6	„ „ 3.55 „ „
7	„ „ 4.4 „ „
8	„ „ 5.2 „ „

### SHOPS ACT, 1912 AND 1913.

During the year the Southampton Jewellers Shops Half-Holiday Order came into operation in the Borough.

One thousand one hundred and nineteen visits of inspection have been made under the Act during the year, and proceedings instituted in 4 cases for breaches of the Act, as follows:—

Name.	Situation.	Date Summons Returnable.	Offence.	Result of Proceedings.
S. T. W.	Cossack Street	March 10	Selling non-exempted articles after 1 p.m. on early closing day	Fined 5/- including costs
G. A. P.	Oxford Street	August 6	ditto	Adjourned sine die
J. C. & Son	Commercial Road	Oct. 20	For failing to exhibit Statutory Notice	Fined 20/- including costs
J. T.	Foundry Lane	Dec. 22	For failing to close Shop one half-day per week	Adjourned for four weeks on defendant promising to comply with the Act

### FACTORY AND WORKSHOPS ACT, 1901.

There are 823 Factories, Workshops and Workplaces Bakehouses, and Laundries on the Registers.

They give employment to 5,861 workers—3,777 males and 2,084 females—as compared with a total of 5,379 in 1914.

### SUMMARY OF VISITS.

Factories	...	...	...	...	37
Workshops and Workplaces	...	...	...	...	1,810
Bakehouses (including Factory Bakehouses)	...	...	...	...	558
Laundries (including Factory Laundries)	...	...	...	...	90
Visits re Sanitary Matters	...	...	...	...	773
Total	...	...	...	...	3,268

# FACTORIES.

TRADE.	No. on Register.	Employees.		Total.	No. of Visits.
		Male.	Female.		
Antiseptic Factories ... ..	1	3	...	3	...
Bedding Factories ... ..	2	7	...	7	...
Blacksmiths and Coachbuilders ... ..	1	7	...	7	1
Boot and Shoe Repairers ... ..	20	59	...	59	5
Bottle Washing Factories ... ..	1	6	...	6	...
Brass and Iron Founders ... ..	4	48	...	48	...
Brickyards ... ..	1	20	...	20	...
Brush and Basket Makers ... ..	1	44	16	60	...
Building Trades ... ..	16	274	...	274	...
Cabinet Makers ... ..	5	19	...	19	1
Cement, Lime and Putty Works ... ..	3	45	...	45	...
Confectioners and Sugar Boilers ... ..	2	5	2	7	1
Cycle and Motor Works ... ..	7	48	...	48	1
Dressmakers ... ..	1	...	37	37	...
Dyeing and Cleaning Works ... ..	2	22	22	44	...
Engineers and Electricians ... ..	9	82	...	82	2
Flag and Banner Maker ... ..	1	1	11	12	...
Horse Hair Dresser ... ..	1	8	...	8	1
Lead and Paint Factories ... ..	2	35	...	35	1
Margarine Factories ... ..	1	70	...	70	...
Mineral Water Factories ... ..	6	48	26	74	3
Oil Cake Factory ... ..	1	60	...	60	...
Photographers and Picture Framers ... ..	2	5	3	8	...
Sailmakers ... ..	2	11	...	11	...
Sausage Making Factories ... ..	10	30	...	30	15
Seedsmen ... ..	1	13	26	39	...
Ship and Yacht Builders ... ..	7	945	...	945	...
Steam Saw Mills and Joinery Works ... ..	4	101	...	101	...
Stonemasons ... ..	2	32	...	32	...
Tobacco Factories ... ..	1	70	410	480	1
Wholesale Packers and Dealers ... ..	2	19	4	23	3
Wine and Beer Bottlers ... ..	8	45	2	47	2
Totals ... ..	127	2182	559	2741	37

## NUISANCES ABATED IN FACTORIES.

Extra water closets provided (separate for sexes) ...	5
Water closets re-constructed ... ..	1
Water closets repaired and cleansed ... ..	2
Defective urinals repaired ... ..	2
New manure vaults constructed ... ..	1
Defective manure vaults repaired ... ..	1
Accumulation of manure removed... ..	1
Smoke nuisance abated ... ..	1
Total ... ..	14

## WORKSHOPS.

TRADE.	No. on Register.	Employees.		Total.	No. of Visits.
		Male.	Female.		
Billiard Table Maker ...	1	3	...	3	1
Blacksmiths and Coachbuilders ...	41	137	...	137	95
Bedding Works ...	1	1	3	4	1
Blind Makers ...	1	8	...	8	2
Boot Repairers...	40	85	...	85	81
Brass Founders ...	1	2	...	2	2
Brick Makers ...	2	14	...	14	3
Brush and Basket Makers ...	3	7	...	7	8
Building Trades ...	37	158	...	158	56
Cabinet Makers and Upholsterers ...	24	98	7	105	53
Carpet Planners and Upholstery Needleworkers ...	4	5	20	25	14
Confectioners and Sugar Boilers ...	3	6	4	10	11
Coopers ...	1	2	...	2	2
Cork Makers ...	1	1	...	1	2
Cycle Makers and Repairers...	20	47	...	47	45
Dressmakers and Milliners ...	102	...	674	674	284
Dyers and Cleaners ...	2	...	5	5	2
Electricians and Engineers ...	5	17	...	17	5
Feather Dressers and Furriers ...	2	3	4	7	7
Hearth Stone Cutter ...	1	1	...	1	2
Iron and Steel Merchant ...	1	9	...	9	1
Marine Store Dealer ...	6	11	16	27	316
Metal Polish Works ...	1	4	...	4	2
Mineral Water Works ...	1	1	...	1	1
Modellers ...	1	3	...	3	1
Offensive Trades ...	3	22	4	26	102
Organ Builder ...	1	5	...	5	2
Perfumers ...	2	3	9	12	3
Photographers ...	13	22	34	56	26
Piano Repairers ...	3	9	...	9	5
Picture Framers and Gilders ...	4	17	...	17	7
Restaurant Kitchens ...	35	68	56	124	171
Sack Repairers...	1	3	7	10	4
Saddlers and Harness Makers ...	11	29	...	29	25
Sailmakers ...	1	18	...	18	2
Sauce and Pickle Works ...	1	1	1	2	3
Stonemasons ...	5	17	...	17	8
Tailors ...	100	155	232	387	352
Ticket Writers and Engravers ...	9	14	...	14	12
Tin Plate Workers ...	11	37	...	37	23
Trunk and Bag Makers ...	2	4	...	4	4
Umbrella Makers ...	1	2	2	4	2
Undertakers ...	5	11	...	11	10
Watchmakers and Opticians ...	12	33	...	33	24
Weight and Scale Makers ...	2	12	...	12	4
Wholesale Packers and Dealers ...	3	24	15	39	8
Wine and Beer Bottlers ...	5	31	...	31	11
Yacht and Boat Builders ...	4	32	...	32	5
Totals ...	537	1192	1093	2285	1810

## NUISANCES ABATED IN WORKSHOPS.

Drains relaid, trapped, and ventilated ... ..	2
„ intercepted from sewer ... ..	2
„ cleared and repaired ... ..	4
„ ventilated ... ..	2
New soil pipes erected ... ..	3
Inspection chambers constructed ... ..	2
Water closets re-constructed ... ..	7
Extra sanitary conveniences provided ... ..	1
Impervious floors laid to water closets ... ..	1
New Cisterns, flush-pipes, etc., fixed ... ..	3
New sinks and waste-pipes fixed or repaired ... ..	3
Insanitary sink abolished ... ..	1
Workrooms ventilated ... ..	2
„ lime-washed ... ..	29
Defective roof repaired ... ..	1
„ floors and ceilings repaired ... ..	3
Damp walls remedied ... ..	2
Yards paved or repaired ... ..	5
Means provided for carrying off fumes from gas stove	1
Smoke nuisances abated ... ..	1
Accumulation of refuse, etc., removed ... ..	4
Total ... ..	79

## REPORTS RECEIVED FROM H.M. FACTORY INSPECTOR.

Thirty-four reports were received from H.M. Factory Inspector during the year, viz.:—

Nature of Report.	No. sent in.	Action Taken.
New Workrooms or Change of Address	4	Premises inspected, Rooms Measured, &c.
Workshops Notified (already on L.A. Register or re-notified after Notice from Local Authority)	24	No action taken.
Sanitary Defects ... ..	6	Defects remedied.
Total ... ..	34	

## NOTIFICATIONS SENT TO H.M. FACTORY INSPECTOR.

Twenty-two notifications have been forwarded to H.M. Factory Inspector during the year respecting new workshops, change of address, or infringement of the Factory and Workshops Act.

## HOME WORK.

During February 52 lists were sent in containing names and addresses of 146 outworkers, and during August 52 lists containing names and addresses of 153 outworkers.

They are situated as follows:—

	February.	August.
Town District ... ..	97	101
Northam and Chapel ... ..	9	6
Bevois Town, Portswood and St. Denys ... ..	20	23
Freemantle and Shirley ... ..	15	17
Outside District ... ..	5	6
Totals ... ..	146	153

Of the 153 names received in August, 43 occupy premises registered as workshops employing labour, and of the remainder residing in the Borough 83 carry on tailoring work, 6 bootmaking, and 15 upholstery needlework, underwear, etc.

The names and addresses of the outworkers living outside the Borough have, in accordance with Section 107 of the Factory and Workshops Act, been forwarded to the Authorities of the District in which they reside.

Two hundred and eighteen visits of inspection have been made during the year to outworkers' premises, resulting in the detection and abatement of four nuisances, as follows:—

Workrooms lime-washed ... ..	3
„ ventilated ... ..	1
Total ... ..	4

Seven letters of warning were sent to firms for failing to send in their lists.

## BAKEHOUSES.

There are 125 Bakehouses on the Register, 19 being factories (i.e., using mechanical power) and 106 workshops.

Ninety of these were in use at the end of the year, and thirty-five were unoccupied.

They give employment to 326 men and 10 women.

Five hundred and fifty-eight visits of inspection have been made during the year and 10 nuisances abated.

All occupied Bakehouses were re-limewashed during the months of April and October, in accordance with the Regulations.

One Bakehouse has been demolished during the year, viz.: No. 133, Earl's Road, and one new one erected at No. 153, High Street.

**TABLE C.—Bakehouses.**

	No. on Register.	No. in Use.	Employees.		Total.	No. of Visits.
			Male.	Female.		
Factories ... ..	19	19	113	10	123	57
Workshops ... ..	106	71	213	...	213	501
Totals ... ..	125	90	326	10	336	558

## NUISANCES ABATED IN BAKEHOUSES.

Stables drained ... ..	...	1
Yards paved or repaired ... ..	...	2
Defective roofs repaired ... ..	...	1
,, wall ,, ... ..	...	1
,, floor ,, ... ..	...	1
Bakehouses cleansed and lime-washed after notice ... ..	...	2
Accumulations of manure, etc., removed ... ..	...	2
Total ... ..	...	10

## LAUNDRIES.

There are 34 Laundries on the Register, one lapsed during the year and one other has been added.

Eleven of these use mechanical power and 23 manual labour.

They employ 77 male and 422 female workers.

Ninety visits of inspection have been made during the year and 12 nuisances abated, as follows:—

## NUISANCES ABATED.

Water closets re-constructed	...	...	...	...	1
„ repaired	...	...	...	...	1
„ impervious floors laid	...	...	...	...	1
Roofs repaired	...	...	...	...	2
Ceilings „	...	...	...	...	1
Yards paved or repaired	...	...	...	...	2
Workrooms lime-washed	...	...	...	...	4
Total	...	...	...	...	12

TABLE D.—Laundries.

	No. on Register.	Employees.		Total.	No. of Visits.
		Male.	Female.		
Factories ...	11	59	291	350	4
Workshops ...	23	18	131	149	86
Totals ...	34	77	422	499	90

In addition to the foregoing, 773 visits have been made during the year, comprising re-visits to Factories, Workshops, Bakehouses, and Laundries, serving notices, investigating complaints of nuisances, overcrowding, and various other matters.

## CASES OF INFECTIOUS DISEASE OCCURRING ON WORKSHOP PREMISES.

Date.	Disease.	Address.	Trade.	Action taken.
Jan. 1	Diphtheria	Bridge Road	Tailoring	Patient isolated at home and premises, bedding, &c., disinfected after recovery
Feb. 4	Typhoid Fever	Bernard Street	Restaurant	Patient removed to Isolation Hospital and premises, bedding, &c., disinfected
Mar. 10	Scarlet Fever	Foundry Lane	Laundry	Do.
May 4	do.	Cromwell Road	Dress-making	Do
July 15	do.	Bevois Valley Road	Boot Repairing	Patient isolated at home and premises, bedding, &c., disinfected after recovery
July 21	do.	Birmingham Street	Tailoring	Patient removed to Isolation Hospital and premises, bedding, &c., disinfected
July 25	do.	St. Mary's Road	Boot Repairing	Patient isolated at home and premises, bedding, &c., disinfected after recovery
Nov. 1	Diphtheria	Trinity Road	Baker	Patient removed to Isolation Hospital and premises, bedding, &c., disinfected
Nov. 2	Scarlet Fever	Priory Road	Laundry	Patient isolated at home and premises, bedding, &c., disinfected after recovery
Dec. 8	do.	Alfred Street	Tailoring	Patient removed to Isolation Hospital and premises, bedding, &c., disinfected

## CASES OF INFECTIOUS DISEASE OCCURRING IN HOMES OF EMPLOYEES OF FACTORIES AND WORKSHOPS.

Thirteen cases of Scarlet Fever, seven cases of Diphtheria, and one case of Cerebro-Spinal Fever occurred in homes of employees of Factories or Workshops during the year.

Fifteen of these cases were removed to the Isolation Hospital and six were isolated at home.

All premises in which cases occurred were disinfected, and bedding, etc., removed for disinfection after removal of patients to the Hospital, or on recovery when isolated at home.

The workers living in the houses in which Scarlet Fever cases occurred received a disinfecting bath and had their clothes disinfected before resuming duties.

*The five following tables are inserted by request of the Secretary of State.*

## **FACTORIES, WORKSHOPS, WORKPLACES AND HOMEWORK.**

### **1.—INSPECTION OF FACTORIES, WORKSHOPS AND WORKPLACES.**

Including Inspections made by Sanitary Inspectors or  
Inspectors of Nuisances.

Premises.	Number of		
	Inspections.	Written Notices.	Prosecutions.
Factories ... .. (including Factory Laundries)	41	7	...
Workshops ... .. (Including Workshop Laundries)	1725	21	..
Workplaces ... .. (Other than Outworkers' premises in- cluded in Part 3 of this Report) ...	171	1	...
Total ... ..	1937	29	...

## 2.—DEFECTS FOUND IN FACTORIES, WORKSHOPS AND WORKPLACES.

Particulars.	Number of Defects.			Number of Prosecutions.
	Found.	Remedied.	Referred to H.M. Inspector.	
NUISANCES UNDER THE PUBLIC HEALTH ACTS :—				
Want of Cleanliness .. ..	35	35	..	..
Want of Ventilation .. ..	2	2	..	..
Overcrowding .. ..	..	..	..	..
Want of drainage of floors ..	..	..	..	..
Other nuisances .. ..	58	58	..	..
Sanitary accommodation {	insufficient ..	1	1	..
	unsuitable or defective ..	14	14	..
	not separate for sexes ..	5	5	..
OFFENCES UNDER THE FACTORY AND WORKSHOP ACT :—				
Illegal occupation of underground bakehouses (s 101) .. ..	..	..	..	..
Breach of special sanitary requirements for bakehouses (ss. 97 to 100) .. ..	..	..	..	..
Other Offences (Excluding offences relating to outwork which are included in Part 3 of this Report) ..	..	.. ..	..	..
Total .. ..	115	115	..	..

NATURE OF WORK.	OUTWORKERS' LISTS, SECTION 107.										OUTWORK IN UNWHOLESOME PREMISES, SECTION 108.			OUTWORK IN INFECTED PREMISES, SECTIONS 109, 110.		
	Lists received from Employers.										Prosecutions.			Instances.		
	Sending twice in the year.		Sending once in the year.		Notices served on Occupiers as to keeping or sending Lists.		Failing to keep or permit inspection of Lists.		Failing to send Lists.		Instances.		Prosecutions.		Orders made (S. 110).	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(16)
Wearing Apparel—																
(1) making, &c. ..	95	..	274	5	..	9	7	..	..	..	..	..	..	..	..	..
Household Linen ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Furniture and upholstery ..	2	..	12	2	..	4	..	..	..	..	..	..	..	..	..	..
Total ..	97	..	286	7	..	13	7	..	..	..	..	..	..	..	..	..

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#### 4.—REGISTERED WORKSHOPS.

Workshops on the Register (s. 131) at the end of the year. (1)	Number. (2)		Class. (1)	Number. (2).
Workshops ..	..	537	Matters notified to H.M. Inspector of Factories :— Failure to affix Abstract of the Factory and Workshop Act (s. 133, 1901) .. .. .	10
Bakehouses ..	..	106	Action taken in matters referred by H.M. Inspector as remediable under the Public Health Acts, but not under the Factory and Workshop Act (s. 5, 1901): Notified by H.M. Inspector .. .. .	6
Laundries ..	..	23	Reports (of action taken) sent to H.M. Inspector Other .. .. .	..
			Underground Bakehouses (s. 101) :— Certificates granted during the year .. .. .	22
			In use at the end of the year .. .. .	..
Total number of Workshops on Register ..	666			6

#### 5.—OTHER MATTERS.

### SYNOPSIS OF TABLES.

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- TABLE 1.—Showing births and birth-rates for the whole Borough and various Districts for eleven years, 1905-1915.
- , 2.—Showing deaths and death-rates for the whole Borough and various Districts for eleven years, 1905-1915.
- 3.—Deaths from all causes at subjoined ages in the Borough of Southampton, from 1906-1915.
- „ 4.—Causes of death in Southampton for ten years, 1906-1915.
- „ 5.—Showing population, birth-rates, death-rates, zymotic death-rates, infantile mortality, and marriage rates in Southampton and England and Wales for twenty years, 1896-1915.
- „ 6.—Table prepared in accordance with Local Government Board's instructions. Showing population, births, and deaths for ten years.
- „ 7.—Ditto. Showing cases of infectious diseases notified during 1915, classified according to ages and localities, and the number removed to Hospital.
- „ 8.—Ditto. Showing deaths occurring in 1915. Classified according to diseases and ages.
- „ 9.—Causes of deaths in Municipal Wards during the year 1915.
- „ 10.—Showing in detail causes of, and ages of all deaths of persons belonging to the Borough of Southampton during the year 1915.
- „ 11.—Vaccination returns for the Borough.
- „ 12.—Abstract from the Meteorological Register kept at the Ordnance Survey Office, Southampton, during the year 1915, together with averages for ten years.

**TABLE 1.**

SHOWING BIRTHS AND BIRTH RATES FOR WHOLE BOROUGH, AND THE OLD CIVIL PARISHES OF THE BOROUGH, FOR 10 YEARS—1905-1914, COMPARED WITH THE YEAR 1915.

Year.	Whole Borough.				Town Proper.		Portswood.		Shirley, Freemantle and Millbrook.	
	Males.	Females	Total Births.	Birth Rate.	Total Births.	Birth Rate.	Total Births.	Birth Rate.	Total Births.	Birth Rate.
1905	1428	1440	2868	25.96	1572	25.4	543	27.4	753	26.2
1906	1495	1418	2913	26.03	1589	25.6	550	27.1	774	26.3
1907	1438	1319	2757	24.33	1506	24.1	480	23.2	771	25.5
*1908	1537	1434	2971	25.41	1646	25.8	553	26.1	772	24.5
1909	1511	1427	2938	25.30	1584	25.2	524	24.2	830	26.2
1910	1546	1380	2926	24.89	1581	25.1	561	25.4	784	24.1
1911	1430	1419	2849	23.94	1536	24.3	545	24.2	768	23.1
1912	1443	1363	2806	23.29	1493	23.5	511	22.1	803	23.7
*1913	1495	1462	2957	25.78	1543	23.7	579	24.1	835	23.7
1914	1499	1450	2949	23.87	1541	24.0	564	23.6	844	23.8
Average 10 years.	1482	1411	2893	24.88	1559	24.7	541	24.7	793	24.7
1915	1368	1339	2707	21.91	1444	22.5	466	19.5	797	22.4

\*53 weeks.

**TABLE 2.**

SHOWING DEATHS AND DEATH RATES FOR THE WHOLE BOROUGH, AND THE OLD CIVIL PARISHES OF THE BOROUGH, FOR 10 YEARS—1905-1914, COMPARED WITH THE YEAR 1915.

Year.	Whole Borough.				Town Proper.		Portswood.		Shirley, Freemantle and Millbrook.	
	Males.	Females	Total Deaths	Death Rate.	Deaths	Death Rate.	Deaths	Death Rate.	Deaths	Death Rate.
1905	901	767	1668	15.10	1026	16.6	253	12.8	389	13.6
1906	796	748	1544	13.80	926	14.9	242	11.9	376	12.8
1907	793	752	1545	13.63	961	15.4	208	10.0	376	12.4
*1908	819	771	1590	13.60	991	15.5	237	11.2	362	11.5
1909	848	764	1612	13.88	988	15.7	229	10.6	395	12.4
1910	764	693	1457	12.39	875	13.9	215	9.7	367	11.3
1911	986	837	1823	15.23	1046	16.6	276	12.2	491	14.8
1912	842	745	1587	13.17	937	14.7	269	11.6	381	11.3
*1913	845	759	1604	12.90	928	14.2	274	11.4	402	11.4
1914	944	772	1716	13.89	1014	15.8	275	11.5	427	12.0
Average 10 years	854	761	1615	13.76	969	15.3	248	11.3	397	12.4
1915	919	809	1728	14.78	991	16.5	284	12.5	453	13.3

\*53 weeks.

**TABLE 3.**

TABLE SHOWING DEATHS OF PERSONS BELONGING TO SOUTHAMPTON,  
CLASSIFIED ACCORDING TO AGES FOR 10 YEARS.

Year.	At all Ages.	Under 1 Year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and upwards.
1906	1544	330	121	67	54	531	441
1907	1545	298	98	59	41	556	493
1908	1590	336	112	40	59	557	486
1909	1612	312	113	51	59	564	513
1910	1457	231	100	61	48	535	482
1911	1823	384	124	62	46	643	564
1912	1587	237	120	58	66	607	499
1913	1604	241	101	71	52	609	530
1914	1716	264	96	91	46	657	562
1915	1728	237	147	86	52	628	578

**TABLE 4.**

CAUSES OF DEATHS IN SOUTHAMPTON FOR 10 YEARS, 1906 TO 1915.

CAUSE OF DEATH.	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915
Enteric Fever .. ..	5	4	4	10	10	3	8	6	6	8
Small Pox .. ..	...	2	...	...	...	...	...	...	...	...
Measles .. ..	...	5	22	...	17	13	18	30	10	30
Scarlet Fever .. ..	...	2	4	5	2	5	2	2	10	2
Whooping Cough .. ..	36	18	35	42	11	18	35	10	10	37
Diphtheria and Croup .. ..	24	22	16	19	16	23	19	30	39	39
Influenza .. ..	9	26	11	19	19	17	17	20	16	29
Erysipelas .. ..	...	6	1	2	4	3	3	...	2	3
Phthisis (Pulmonary Tuberculosis)	154	126	135	158	145	188	160	150	172	170
Tuberculous Meningitis .. ..	19	13	10	23	23	24	18	19	16	14
Other Tuberculous Disease .. ..	32	37	29	20	30	27	24	17	23	22
Cancer, malignant disease .. ..	102	125	108	105	135	125	109	139	125	150
Rheumatic Fever .. ..	4	5	3	7	4	3	6	2	4	6
Meningitis .. ..	24	18	14	21	10	14	14	14	15	24
Organic Heart Disease .. ..	113	151	153	129	120	158	137	158	176	156
Bronchitis .. ..	113	141	143	135	108	126	144	137	133	163
Pneumonia (all forms) .. ..	92	96	85	112	83	129	103	88	121	118
Other Diseases of Respiratory Organs .. ..	19	23	22	17	14	23	27	27	19	33
Diarrhoea and Enteritis .. ..	104	59	75	63	38	178	39	55	61	47
Appendicitis and Typhlitis .. ..	8	6	5	8	6	9	13	12	12	12
Cirrhosis of Liver .. ..	10	10	11	14	7	17	15	16	14	14
Alcoholism .. ..	6	9	6	4	4	8	2	1	7	2
Nephritis and Bright's Disease .. ..	56	37	35	50	43	50	56	52	52	44
Puerperal Fever .. ..	6	2	4	2	2	2	2	2	2	2
Other accidents and Diseases of Pregnancy and Parturition .. ..	6	3	7	5	5	4	10	8	4	9
Congenital Debility and Malforma- tion, including Premature Birth	106	134	130	125	110	127	88	113	137	88
Violent Deaths, excluding Suicide	40	35	38	44	42	49	34	49	41	53
Suicide .. ..	12	13	17	11	12	11	13	7	12	5
Other Diseases .. ..	444	417	467	462	437	469	471	440	477	448
Totals .. ..	1544	1545	1590	1612	1457	1823	1587	1604	1716	1728

TABLE 5.

SHOWING POPULATION, BIRTH RATES, DEATH RATES, ZYMOTIC DEATH RATES, INFANTILE MORTALITY, AND MARRIAGE RATES IN SOUTHAMPTON AND ENGLAND AND WALES FOR TWENTY YEARS, 1896—1915.

Year.	Births.			Deaths.			Zymotic Deaths.			Infantile Mortality.			Marriages.				
	Popu- lation.	Total Births.	Birth Rate.	Birth Rate England and Wales.	Total Deaths	Death Rate. England and Wales.	Total Zymotic Deaths.	Zymotic Death Rate. England and Wales.	Zymotic Death Rate England and Wales.	Deaths under 1 year per 1000		Total Marri- ages.	Marri- age Rate	Marriage Rate England and Wales.			
										South- ampton.	England & Wales.						
1896	94,150	2,859	30.4	29.7	1,657	17.2	192	2.04	2.17	146	148	838	17.8	15.8			
1897	96,500	2,937	30.4	29.7	1,711	17.3	217	2.24	2.15	156	156	848	17.6	16.0			
*1898	98,950	2,945	29.8	29.4	1,756	17.3	267	2.63	2.21	153	161	791	16.0	16.2			
1899	101,350	2,995	29.6	29.3	1,992	19.1	297	2.88	2.19	178	163	896	17.7	16.4			
1900	103,500	2,929	28.3	28.9	1,881	17.6	163	1.51	1.99	152	154	846	16.3	15.9			
1901	105,179	3,141	30.0	28.5	1,789	16.6	173	1.64	2.05	154	151	918	17.5	15.9			
1902	106,601	3,152	29.1	28.6	1,726	15.7	174	1.64	1.64	124	133	966	18.1	15.8			
*1903	108,022	3,165	29.4	28.4	1,557	14.1	165	1.50	1.46	114	132	883	16.3	15.6			
1904	109,444	3,003	27.5	27.9	1,590	14.2	123	1.13	1.94	114	146	859	15.7	14.6			
1905	110,865	2,868	26.0	27.2	1,735	15.1	275	2.49	1.52	133	128	827	14.9	15.3			
1906	112,287	2,913	26.0	27.0	1,611	13.8	169	1.51	1.73	113	133	805	14.3	15.6			
1907	113,708	2,757	24.3	26.3	1,572	13.6	112	0.99	1.28	108	118	827	14.5	15.8			
*1908	115,130	2,971	25.4	26.5	1,642	13.6	156	1.33	1.34	113	121	867	15.1	14.9			
1909	116,551	2,938	25.3	25.6	1,694	13.9	139	1.20	1.13	106	109	928	15.9	14.6			
1910	117,973	2,926	24.9	25.1	1,554	12.4	94	0.80	0.99	79	106	773	13.1	14.8			
1911	119,394	2,849	23.9	24.4	1,847	15.2	220	1.85	2.49	135	130	914	15.4	15.2			
1912	120,891	2,806	23.3	23.8	1,587	13.2	113	0.94	...	84	95	990	16.4	15.5			
*1913	122,412	2,957	23.8	23.9	1,604	12.9	122	0.98	...	82	109	1032	16.9	15.5			
1914	123,948	2,949	23.9	23.8	1,716	13.9	123	1.00	...	90	105	1080	17.4	15.9			
†1915	117,349	2,707	21.9	21.8	1,728	14.8	156	1.33	...	88	110	1199	19.4	19.3			

\*53 Weeks. † Estimated Civil Population.

NOTE.—The Zymotic Deaths and Death Rates include the seven principal Zymotic Diseases, viz.—Whooping Cough, Measles, Diarrhœa, Diphtheria, Scarlet Fever, Typhoid Fever and Small Pox.



TABLE 7.

CASES OF INFECTIOUS DISEASE NOTIFIED DURING THE YEAR 1915.

NOTIFIABLE DISEASE.	Number of Cases notified.										Total Cases Notified in each Municipal Ward.									Total cases re- moved to Hospital.					
	At Ages—Years.										Town.	St. Mary's.	Northam.	Trinity.	Newtown.	All Saints.	Bevois.	Banister.	Freemantle.	Millbrook.	Shirley.	Portswood.	St. Deny's.		
	At all Ages.	Under 1.	1 & under 5 years.	5 & under 15 years.	15 & under 25 years.	25 & under 45 years.	45 & under 65 years.	65 and upwards.																	
Small-pox	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cholera	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Plague	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Diphtheria (including Membranous Group)	346	1	61	218	33	27	5	1	7	18	23	7	23	16	16	17	58	56	40	33	32	1	72	221	
Erysipelas	63	...	2	3	6	16	25	11	9	3	4	8	3	4	4	2	4	6	11	3	72	1	...	...	
Scarlet Fever	430	2	78	273	51	24	2	...	15	37	17	17	33	16	43	38	23	19	22	49	...	...	...	262	
Typhus Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Enteric Fever	25	...	1	6	5	9	4	...	3	3	1	...	2	2	2	1	...	...	...	...	1	1	14	...	
Relapsing Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Continued Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Puerperal Fever	5	...	...	...	1	4	...	...	1	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	
Cerebro-spinal	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Meningitis	14	1	2	5	2	3	1	...	...	1	1	...	1	3	...	...	1	1	1	1	3	3	...	8	
Polionmyelitis	2	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	
Ophthalmia Neon- atorum	21	21	...	...	...	...	...	...	1	4	4	...	...	...	...	3	1	...	4	...	...	2	...	...	
Pulmonary Tuber- culosis	318	2	9	49	42	140	68	8	52	28	23	41	28	23	19	23	19	11	13	24	22	21	22	162	
Other Forms of Tuberculosis	78	8	13	39	6	6	4	2	19	3	6	15	3	6	2	5	4	2	3	4	4	4	7	...	
Totals	1302	35	167	594	116	229	109	22	107	97	79	130	97	79	85	72	87	75	103	111	104	115	137	667	

TABLE 8.

CAUSES OF, AND AGES AT DEATH DURING THE YEAR 1915.

CAUSE OF DEATH.	Nett Deaths at the subjoined Ages of "Residents," whether occurring within or without the District.									Total Deaths in Institu- tions in the District.
	All Ages.	Under 1 year.	1 and under 2 years.	2 and under 5 years.	5 and under 15 years.	15 and under 25 years.	25 and under 45 years.	45 and under 65 years.	65 and upwards.	
All Causes—Certified	1728	237	79	68	86	52	241	387	578	610
—Uncertified	..	..	..	..	..	..	..	..	..	..
Enteric Fever	8	..	..	1	3	..	3	1	..	14
Small Pox	..	..	..	..	..	..	..	..	..	..
Measles	30	4	15	9	2	..	..	..	..	1
Scarlet Fever	2	..	..	1	1	..	..	..	..	2
Whooping Cough	37	15	14	6	2	..	..	..	..	3
Diphtheria and Croup	39	1	1	10	27	..	..	..	..	32
Influenza	29	1	1	1	..	..	5	8	13	1
Erysipelas	3	..	..	..	1	..	..	1	1	1
Phthisis (Pulmonary Tuberculosis)	170	2	2	2	3	20	73	63	5	63
Tuberculous Meningitis	14	7	1	3	2	1	..	..	..	7
Other Tuberculous Diseases	22	3	3	6	4	2	..	4	..	17
Cancer, malignant disease	150	..	..	..	..	..	18	59	73	47
Rheumatic Fever	6	..	..	..	3	2	..	1	..	4
Meningitis	24	3	2	3	8	4	2	2	..	10
Organic Heart Disease	156	..	..	..	3	1	29	58	65	41
Bronchitis	163	27	12	4	1	1	..	22	96	20
Pneumonia (all forms)	118	21	15	7	4	..	22	24	25	25
Other diseases of Respiratory Organs	33	..	..	..	3	..	8	6	16	5
Diarrhoea and Enteritis	47	35	5	3	1	2	..	..	1	29
Appendicitis and Typhlitis	12	..	..	1	2	1	2	4	2	12
Cirrhosis of Liver	14	..	..	..	..	..	2	7	5	4
Alcoholism	2	..	..	..	..	..	..	2	..	..
Nephritis and Bright's Disease	44	..	..	..	..	..	2	26	16	12
Puerperal Fever	2	..	..	..	..	..	2	..	..	..
Other accidents and diseases of Pregnancy and Parturition	9	..	..	..	..	1	8	..	..	5
Congenital Debility and Mal- formation, including Pre- mature Birth	88	86	1	..	..	1	..	..	..	17
Violent Deaths, excluding Suicide	53	2	3	3	6	6	11	12	10	41
Suicide	5	..	..	..	..	..	4	..	1	2
Other Defined Diseases	446	28	4	8	10	10	50	87	249	195
Diseases ill-defined or unknown	2	2	..	..	..	..	..	..	..	..
	1728	237	79	68	86	52	241	387	578	610
SUB-ENTRIES—										
Cerebro-spinal Meningitis	8	1	..	1	2	2	1	1	..	5
Poliomyelitis	..	..	..	..	..	..	..	..	..	..
Pneumonia (other than Broncho-pneumonia)	68	6	4	3	4	..	18	19	14	17

TABLE 9.

CAUSES OF DEATH IN THE MUNICIPAL WARDS DURING  
THE YEAR 1915.

CAUSES OF DEATH.	MUNICIPAL WARD.													*No settled resi- dence in Boro'.	Total Deaths.
	Town.	St. Marys.	Northam.	Trinity.	Newtown.	All Saints.	Bevois.	Banister.	Freemantle.	Millbrook.	Shirley.	Portswood.	St. Denys.		
Enteric Fever ..	1	2	2	1	1	..	..	..	..	..	..	1	..	..	8
Small Pox ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles ..	1	10	7	2	..	..	..	..	1	2	3	2	1	1	30
Scarlet Fever ..	..	..	..	..	..	..	1	..	..	..	1	..	..	..	2
Whooping Cough ..	1	2	3	5	2	2	..	1	2	6	11	..	1	1	37
Diphtheria & Croup ..	..	1	5	5	3	2	3	1	3	4	4	5	3	..	39
Influenza ..	4	1	..	4	2	2	2	2	4	1	1	4	2	..	29
Erysipelas ..	..	..	1	..	..	..	..	..	..	1	1	..	..	..	3
Phthisis ..	33	25	19	13	6	8	9	7	3	12	12	12	10	1	170
Tuberculous															
Meningitis ..	4	3	1	..	..	1	1	1	..	1	..	2	..	..	14
Other Tuberculous															
Diseases ..	4	2	3	..	2	1	1	..	1	1	2	4	1	..	22
Cancer ..	19	13	11	11	11	10	14	11	11	11	12	7	9	..	150
Rheumatic Fever ..	..	1	..	..	..	..	1	1	1	..	1	1	..	..	6
Meningitis ..	2	2	4	1	1	2	..	1	2	2	4	2	1	..	24
Organic Heart															
Disease ..	22	21	11	18	22	8	6	7	12	6	5	5	11	2	156
Bronchitis ..	14	23	29	15	9	16	10	10	5	11	11	..	9	1	163
Pneumonia (all forms)	18	11	15	7	6	6	10	8	6	5	10	11	4	1	118
Other diseases of															
Respiratory Organs	3	5	4	..	2	1	1	4	3	..	3	4	3	..	33
Diarrhoea & Enteritis	6	8	10	5	1	2	3	1	2	1	2	4	2	..	47
Appendicitis and															
Typhlitis ..	..	1	..	1	1	..	2	2	1	1	..	3	..	..	12
Cirrhosis of Liver ..	1	1	3	2	1	1	1	..	1	2	1	..	..	..	14
Alcoholism ..	..	..	..	1	..	..	..	..	..	..	..	1	..	..	2
Nephritis & Bright's															
Disease ..	2	4	..	1	5	4	4	5	2	5	2	3	5	2	44
Puerperal Fever ..	..	..	..	1	..	..	..	..	..	1	..	..	..	..	2
Other accidents and															
Diseases of Preg-															
nancy & Parturition	1	..	1	1	1	1	1	..	..	2	..	1	..	..	9
Congenital Debility &															
Malformation (in-															
cluding Premature															
Birth) ..	10	11	8	2	5	8	6	4	4	7	10	8	5	..	88
Violent Death (ex-															
cluding Suicide) ..	9	10	8	5	1	4	2	..	2	1	2	5	1	3	53
Suicide ..	..	..	1	..	1	1	1	..	..	..	1	..	..	..	5
Other Diseases ..	39	46	30	30	36	38	25	31	28	43	38	28	23	13	448
Totals ..	194	203	176	131	119	118	104	97	94	126	137	113	91	25	1728

\* In calculating death rates, the deaths in this column are allocated over the various Wards.

TABLE 10.

TABLE SHOWING DEATHS FROM ALL CAUSES BELONGING TO THE COUNTY BOROUGH OF SOUTHAMPTON DURING THE YEAR 1915 (52 weeks ended 1st January, 1916) CLASSIFIED ACCORDING TO DISEASES AND AGES. (This Table includes deaths of "Residents" occurring in other Districts, and excludes deaths of "Non-Residents," in accordance with the Rules of the Registrar-General).

DISEASES CLASSIFIED.	AGES.										SEX.		Totals.	
											Males.	Females.		
	0 to 1	1 to 2	2 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 to 95		95 and up- w'ds
GENERAL DISEASES.														
Enteric Fever	...	...	...	...	...	2	1	...	...	...	...	...	...	7
Measles	4	15	9	2	...	...	...	...	...	...	...	...	...	10
Scarlet Fever	...	...	1	1	...	...	...	...	...	...	...	...	...	...
Whooping Cough	...	...	6	2	...	...	...	...	...	...	...	...	...	...
Diphtheria	15	14	10	27	...	...	...	...	...	...	...	...	...	25
Influenza	1	1	10	1	...	4	1	4	4	5	3	...	...	19
Erysipelas	1	1	1	...	...	...	...	1	...	1	...	...	...	15
German Measles	...	...	...	1	...	...	...	...	...	...	...	...	...	1
Septicæmia	1	...	...	1	...	...	1	...	...	1	...	...	...	1
Tetanus	...	...	...	...	...	...	...	...	...	...	...	...	...	3
Pulmonary Tuberculosis	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Tuberculous Meningitis	2	2	2	3	20	34	39	41	22	4	...	...	...	67
Tuberculosis of Peritoneum & Intestines	7	1	3	2	1	...	...	...	...	...	...	...	...	...
Tuberculosis of Spinal Column	3	3	4	3	1	...	...	1	1	...	...	...	...	...
Tuberculous Abscess of Axilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Disseminated Tuberculosis	...	...	...	...	...	...	...	1	...	...	...	...	...	...
Rickets	...	...	2	...	...	...	...	1	...	...	...	...	...	...
Syphilis	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Congenital Syphilis	...	...	...	...	...	...	...	1	2	...	...	...	...	...
Cancer of the Buccal Cavity	4	1	...	...	...	...	...	...	...	...	...	...	...	...
Cancer of the Stomach, Liver, &c.	...	...	...	...	...	...	...	3	2	5	1	1	...	...
Cancer of the Peritoneum, Intestines, and Rectum	...	...	...	...	...	1	3	7	8	16	6	18	...	...
Cancer of the Female Genital Organs	...	...	...	...	...	2	4	4	9	13	9	22	...	...
Cancer of the Breast	...	...	...	...	...	...	3	5	4	1	2	15	...	...
Cancer of the Skin	...	...	...	...	...	...	2	5	4	3	5	19	...	...
	...	...	...	...	...	...	...	...	...	...	...	1	...	...

TABLE 10.—Continued.

DISEASES CLASSIFIED.	AGES.											SEX.		Totals.		
												Males.	Females.			
	0 to 1	1 to 2	2 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 to 95	95 and up- w'ds			
Cancer of Unspecified Organs	...	...	...	...	...	...	3	4	4	6	3	...	...	17	3	20
Rheumatic Fever ...	...	...	...	3	2	...	...	1	...	...	...	...	...	2	4	6
Rheumatism ...	...	...	...	...	...	...	...	1	...	2	...	...	...	2	1	3
Rheumatoid Arthritis	...	...	...	...	...	...	1	1	...	...	...	...	...	...	2	2
Gout ...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...	1
Diabetes ...	...	...	1	...	1	2	1	2	2	3	1	...	...	7	1	14
Addison's Disease...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
Leucocythæmia ...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	1
Anæmia ...	...	...	2	2	1	1	1	1	1	1	...	...	...	5	4	9
Alcoholism	...	...	...	...	...	...	...	...	2	...	...	...	...	1	1	2
101																
II. DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE.																
Encephalitis	...	...	...	1	1	...	2	...	1	...	...	...	...	3	2	5
Cerebro-spinal Fever	...	...	1	2	2	1	...	...	...	...	...	...	...	4	4	8
Meningitis ...	2	2	2	6	2	...	1	1	...	...	...	...	...	9	7	16
Locomotor Ataxy	...	...	...	...	...	...	1	...	2	...	...	...	...	3	...	3
Disseminated Sclerosis	...	...	...	...	...	1	1	1	1	...	...	...	...	4	...	4
Lateral Sclerosis ...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	1
Myelitis ...	...	...	1	...	...	...	...	1	...	...	...	...	...	1	...	1
Labio-glossal Paralysis	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	1
Cerebral Hæmorrhage	...	...	...	...	1	1	4	5	18	19	24	...	...	38	38	76
Cerebral Softening	...	...	...	...	...	...	...	1	3	14	5	...	...	15	8	23
Hemiplegia	...	...	...	...	...	...	...	...	2	5	3	...	...	6	4	10
General Paralysis of the Insane	...	...	...	...	...	...	4	2	...	1	...	...	...	5	2	7
Epilepsy ...	...	...	2	1	1	1	2	3	...	...	...	...	...	5	6	11
Convulsions	...	2	3	...	...	...	...	...	...	...	...	...	...	7	4	11
Chorea	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	1
Neuritis	...	...	...	...	...	...	...	...	...	2	...	...	...	...	2	2

**TABLE 10.**—Continued.

DISEASES CLASSIFIED.	AGES.												SEX.		Totals.		
													Males.	Females.			
	0 to 1	1 to 2	2 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 to 95				95 and up- w'ds	
Cerebral Tumour ...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	2	2
Neurasthenia ...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	1
Acute Mania ...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
Mental Stupor ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Mastoid Disease ...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	2	2
Otitis Media ...	...	...	...	...	2	1	...	...	...	...	...	...	...	...	...	1	3
III. DISEASES OF THE CIRCULATORY SYSTEM.																	
Myocarditis ...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
Valvular Disease of Heart ...	...	...	...	2	...	6	14	9	19	20	16	3	...	...	...	46	89
Fatty Degeneration of Heart ...	...	...	...	...	...	...	...	2	3	1	...	...	...	...	3	6	6
Other Organic Disease of Heart ...	...	...	...	1	1	1	8	5	19	19	5	1	...	...	41	19	60
Angina Pectoris ...	...	...	...	...	...	...	...	...	...	3	...	...	...	...	3	...	3
Aneurysm ...	...	...	...	...	...	...	2	...	1	1	2	...	...	...	6	...	6
Rupture of Blood Vessel ...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	3	...	3
Arterial Sclerosis ...	...	...	...	...	...	...	...	...	6	6	7	3	...	...	14	8	22
Embolism and Thrombosis ...	...	...	...	...	1	1	1	...	4	...	2	...	...	...	5	4	9
Phlebitis ...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	1
Status Lymphaticus ...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	2	...	2
Adenitis ...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	1
IV. DISEASES OF THE RESPIRATORY SYSTEM.																	
Laryngitis ...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	1	...	2
Ulceration of Larynx ...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	1
Bronchitis ...	27	12	4	1	1	...	...	12	10	38	46	11	1	...	70	93	163
Broncho-Pneumonia ...	15	11	4	...	...	3	1	2	3	5	4	2	...	...	26	24	50
Pneumonia ...	6	4	3	4	...	5	13	9	10	8	4	2	...	...	39	29	68
Pleurisy ...	...	...	...	1	...	3	...	...	...	3	2	...	...	...	8	1	9

**TABLE 10.—Continued.**

[illegible]



TABLE 10.—Continued.

DISEASES CLASSIFIED.	AGES.												SEX.		Totals.	
													Males.	Females.		
	0 to 1	1 to 2	2 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 to 95	95 and up- w'ds			
IX. DISEASES OF THE BONES AND OF THE ORGANS OF LOCOMOTION.																
Osteo-Myelitis ...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...
Osteoma ...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
X. MALFORMATION.																
Congenital Hydrocephalus ...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
Malformation of Heart ...	8	...	...	1	...	...	...	...	...	...	...	...	...	...	8	...
Stenosis of Pylorus ...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
Imperforate Anus ...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
Spina Bifida ...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
Cleft Palate ...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
Other Malformations ...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
XI DISEASES OF EARLY INFANCY.																
Premature Birth ...	56	...	...	...	...	...	...	...	...	...	...	...	...	...	29	27
Atrophy, Debility and Marasmus ...	15	1	...	...	...	...	...	...	...	...	...	...	...	...	9	7
Icterus Neonatorum ...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
Atelectasis ...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
Injuries at Birth ...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
XII. OLD AGE.																
Senile Decay ...	...	...	...	...	...	...	...	...	4	14	49	48	3	...	37	81
XIII. AFFECTIONS PRODUCED BY EXTERNAL CAUSES.																
Suicide by—																
Poison ...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	2
Cutting Throat ...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	2	...
Railway Train ...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...

TABLE 10.—Continued.

DISEASES CLASSIFIED.	AGES.												SEX.		Totals.	
													Males.	Females.		
	0 to 1	1 to 2	2 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 to 95				95 and up- w'ds
Manslaughter by—	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	1
Striking ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Accident—	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	1
By Poison ...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	4	7
Burns or Scalds ...	...	3	3	1	...	...	...	...	...	...	...	...	...	7	4	11
Injuries from Falling ...	...	...	...	1	...	...	...	...	...	...	...	...	...	13	...	13
Drowning ...	...	...	...	2	2	1	3	1	3	...	...	...	...	1	...	1
Machinery ...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	2
Overlaying ...	2	...	...	...	...	...	...	...	...	...	...	...	...	2	...	2
On Railways ...	...	...	...	...	...	...	1	1	...	...	...	...	...	2	...	2
Ships, Boats, Docks ...	...	...	...	...	2	3	2	1	1	...	...	...	...	9	...	9
In Vehicular Traffic ...	...	...	...	2	1	1	...	1	...	2	...	...	...	4	2	6
ALL ILL-DEFINED OR NOT SPECIFIED CASES.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
“Found Dead” ...	2	...	...	...	...	...	...	...	...	...	...	...	...	2	...	2
Totals ...	237	79	68	86	52	93	148	172	215	264	225	85	4	919	809	1728

TABLE 11.

## VACCINATION RETURNS.

Year.	Births.	Success-fully Vaccinated.	Died Unvaccinated.	Insus-ceptible to Vaccination.	Declar-ations of Cons-cientious objection	Postponed and where-abouts unknown or removed to other districts.	Percentage success-fully Vac-cinated.
1892	1646	1312	178	8	...	147	*79.7
1893	1701	1407	180	16	...	98	82.7
1894	1796	1496	185	28	...	87	83.3
1895	1874	1560	207	16	...	91	83.2
1896	1912	1577	231	18	...	86	82.5
1897	1886	1580	195	15	...	96	83.8
1898	1847	1491	218	19	...	119	80.7
1899	1802	1425	245	12	...	120	79.1
1900	1751	1414	217	7	...	113	80.7
1901	1821	1502	202	6	...	101	82.5
1902	1739	1466	163	3	...	107	84.3
1903	1697	1459	152	6	...	80	86.0
1904	1683	1435	167	9	...	72	85.3
1905	1543	1319	153	4	...	67	85.5
1906	1570	1312	150	6	...	102	83.6
1907	1504	1240	149	3	...	112	82.4
1908	1585	1203	134	9	...	239	75.9
1909	†2681	1889	197	14	...	581	70.5
1910	†2931	1863	187	5	651	225	63.6
1911	†2851	1630	263	9	771	178	57.2
1912	†2823	1524	164	8	908	219	54.0
1913	†2886	1364	187	6	1055	274	47.3
1914	†2972	1294	209	7	1176	286	43.5

\* One Child had Small-pox.

† Returns for whole Borough.

TABLE 12.

ABSTRACT FROM THE METEOROLOGICAL REGISTER KEPT AT THE ORDNANCE SURVEY OFFICE, SOUTHAMPTON,  
DURING THE YEAR 1915.

Month.	BAROMETER.					TEMPERATURE.										RAINFALL.			SUNSHINE.		
	Mean at		Maximum Reading.	Date.	Minimum Reading.	Date.	Mean.		Approx. Mean.	Highest Maximum.	Date.	Lowest Minimum.	Date.	Greatest quantity in 24 hours.	Total in Mm.	No. of days on which 2 or more fell.	Total No. of hours.	Maximum No. of hours.	Date.		
							9 a.m.	9 p.m.													
	9 a.m.	9 p.m.																			
Jan. ...	29.68	29.68	30.56	8th & 19th	28.72	1st	39.7	40.7	40.9	54	13th	29	30th	108.1	19.5	3rd	19	48.15	7.05	17th	
Feb. ...	29.66	29.64	30.48	25th	28.60	13th	40.2	41.4	41.5	51	3rd 18th & 19th	24	25th	143.2	27.1	16th	20	83.3	7.2	24th	
March ...	30.03	30.04	30.47	9th	29.42	18th	42.6	42.4	42.7	57	23rd	25	20th	19.3	5.3	22nd	10	100.15	10.0	31st	
April ...	30.11	30.10	30.39	2nd	29.29	7th	48.3	47.2	47.6	71	28th	29	1st	32.9	14.7	6th	11	169.7	12.55	21st	
May ...	30.03	30.03	30.42	9th	29.48	13th	56.4	53.9	55.5	79	26th	35	15th	91.5	29.6	13th	11	229.8	14.5	24th	
June ...	30.05	30.05	30.29	4th	29.76	29th	60.7	58.6	59.7	80	8th	40	1st	33.9	10.0	28th	7	210.75	14.3	15th	
July ...	29.95	29.97	30.29	2nd	29.46	17th	61.6	59.1	60.7	79	4th	48	13-18th & 29th	112.2	32.6	16th	15	207.8	12.7	18th	
August	30.04	30.04	30.37	23rd	29.48	2nd	62.6	60.2	62.9	75	10-26th & 27th	45	30th	39.3	13.5	14th	15	188.5	11.6	19th	
Sept. ...	30.04	30.02	30.43	6th	29.38	28th	58.0	55.7	58.2	75	17th	35	30th	92.7	51.0	24th	8	189.2	11.55	5th	
Oct. ...	30.04	30.02	30.37	18th	29.33	31st	50.1	50.3	51.0	64	12-13th & 14th	33	1st	96.4	26.4	31st	11	62.35	6.4	1st	
Nov. ...	29.98	29.99	30.76	20th & 21st	28.89	12th	38.1	39.9	39.9	56	12th	24	27th	82.5	24.5	30th	8	99.95	7.95	2nd	
Dec. ...	29.67	29.68	30.47	19th	28.63	25th	44.2	42.8	44.8	54	4th 9th & 10th	30	14th & 20th	205.1	24.2	26th	25	38.9	6.2	13th	
For the year ...	29.938	29.940	30.76	20-21/11/15	28.60	13th Feb.	50.2	49.4	50.4	80	8th June	24	25/2/15 27/11/5	1057.1 (41.7 in.)	51.0	24th Sept.	160	1628.55	14.5	24th May	
For 10 years, 1906-1915	29.948	29.950	30.797	23/1/07	28.60	13/2/15	51.2	49.9	51.1	89	22/7/11	11	3/3/09	859.4 (33.97 in.)	51.0	24/9/15	176	1674.2	15.5	14/6/10	

This Table has been supplied by the courtesy of the Director-General of Ordnance Survey.

# Analyst's Department.

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Sale of Food and Drugs Acts, 1875 to 1899,  
and General Analyses.

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## ANNUAL REPORT

For the Year ending December 31st, 1915.

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*To the Worshipful the Mayor, Aldermen and Councillors of the  
County Borough of Southampton.*

GENTLEMEN,

I have the honour to submit for your information a summary of the work done in this Department during the past year.

### **Section I.—Sale of Food and Drugs Acts.**

The number of samples submitted under the above Acts during the year 1915 was 522, or 23 more than in the previous year.

Of this number 445 were submitted by Inspectors, 35 by residents in the Borough, 21 by residents outside the Borough, and 21 by the Borough of Newbury.

In the following tables the samples received from outside the Borough and from the Borough of Newbury are not included.

The character of the samples, the number of each article submitted and the percentage of Adulterated Samples are given in Table I.

TABLE I.

Name of Article.				Number on Register.	Number of Samples Adulterated.	Percentage Adulterated Samples.
Butter	...	...	...	111	11	9.9
Cheese	...	...	...	35	...	—
Coffee	...	...	...	5	1	20.0
Cream	...	...	...	13	1	7.69
Flour...	...	...	...	16	...	—
Ginger	...	...	...	5	...	—
Honey	...	...	...	1	...	—
Lard ...	...	...	...	31	...	—
Margarine	...	...	..	24	3	12.50
Milk ...	...	...	...	217	17	7.83
Pepper	...	...	...	16	...	—
Rice ...	...	...	...	5	...	—
Rum ...	...	...	...	1	...	—
Totals	...	...	...	480	33	6.87

The adulterated samples, amount of adulteration, prosecutions, and results are given in Table II.

TABLE II.

Article Analysed.	No. on Register.	Nature and Amount of of Adulteration.	Action taken.	Result.	
				Fines.	Costs.
Butter	34	2.40 % excess of water	Test sample		
"	35	2.06 % " "	"		
"	36	3.3 % " "	"		
"	71	3.29 % " "	Summoned	£2	6/6
"	241	100 % margarine	Test sample		
"	254	100 % "	Summoned	£5	
"	262	100 % "	"	Case with	drawn
"	275	100 % "	"	£5	
"	276	100 % "	"	£1	
"	277	100 % "	Test sample		
"	p12	13.12 % excess of water	Private		
Coffee	131	60 % chicory	Test sample		
Cream	436	100 % "preserved cream"	Vndr.cautioned		
Margarine	134	1.3 % excess of water	Test sample		
"	p4	0.5 % " "	Private		
"	p9	1.33 % " "	"		
Milk	18	9.7 % added water	Summoned		4/-
"	78	3.33 % fat deficient	"		4/-
"	79	13.66 % fat deficient and 1.2 % added water	"	£5	
"	99	7.33 % fat deficient and 2.00 % added water	"	£1	
"	139	6.6 % fat deficient	Test sample		
"	172	26.6 % " "	"		
"	174	3.5 % added water	"		
"	218	10.0 % fat deficient	"		
"	223	13.33 % " "	"		
"	250	10.00 % " "	Summoned	Dismissed proved contrary	
"	252	7.33 % " "	"	£5	
"	338	6.0 % " "	Vndr.cautioned		
"	418	10.53 % fat deficient and 4.47 % added water	Summoned	£2	
"	434	3.53 % added water	Vndr.cautioned		
"	444	6.66 % fat deficient	"		
"	p20	13.33 % " "	Private		
"	p47	23.35 % " "	"		

. The total fines and costs for the year amounted to  
£26 14s. 6d.

## COMPOSITION OF MILK SUPPLY.

The composition of genuine samples for the past seven years is given in Table III, the figures being the average for the year.

**TABLE III.**

Year ...	1909.		1910.		1911.		1912.		1913.		1914.		1915.	
Source ...	Inspectors	Private	Inspectors	Private	Inspectors	Private	Inspectors	Private	Inspectors	Private	Inspectors	Private	Inspectors	Private
Total Solids	12.73	12.74	12.61	12.62	12.48	12.61	12.48	12.54	12.62	13.19	12.53	12.74	12.43	12.88.
Fat ...	3.82	3.87	3.71	3.76	3.72	3.77	3.63	3.64	3.71	4.33	3.66	3.73	3.58	3.90

The general averages for the past seven years were:—

		1909	1910	1911	1912	1913	1914	1915
Total Solids ...		12.73%	12.61%	12.49%	12.48%	12.73%	12.54%	12.47%
Fat ...		3.82%	3.75%	3.73%	3.63%	3.83%	3.83%	3.61%

The general averages of the supply for 1915, shown above, is 12.47 per cent. of total solids and 3.61 per cent. of fat.

The quality of the milk supply for the previous year (1914) was low, but the quality of the supply for 1915 is still lower.

This is due to the fact that special attention has been paid to those purveyors whose supplies have habitually been slightly below, or close upon the limit.

In one case a string of witnesses were put in the box, and each swore that the sample had not been tampered with.

Information which, if correct, would account for the deficiency in fat, but would clearly be adulteration, was subsequently obtained.

The statement was that a number of calves were being reared and that the cows were only partially milked, and the calves allowed to feed on what was left in the cows' udders.

In another case the defendant pleaded warranty, but the documents in which he relied were shown to be faulty, and he was convicted.

### REMAINING ARTICLES.

These present no features of interest or require comment.

### SUPPLEMENTARY REPORT.

#### Public Health (First Series, Unsound Food) Acts.

At the request of the Local Government Board these articles are dealt with separately.

The number of articles received under these Regulations was 18, namely:—

Beef Lard	...	...	...	...	...	1
Butter	...	...	...	...	...	17

#### BEEF LARD.

This consisted of a mixture of fats and contained a large proportion of cotton seed oil.

The name is totally misleading.

#### BUTTER.

These are samples arriving at the Port from Foreign sources.

Two samples from Siberia were free from boric acid preservatives.

Ten samples contained boric acid, ranging from 0.13 per cent. to 0.5 per cent.

Five samples contained boric acid in excess of 0.5 per cent., the quantities ranging from 0.53 to 1.1 per cent.

## RAG FLOCK ACT.

Thirteen samples of Rag Flock were submitted, and they all complied with the requirements of the Act.

**SECTION II.—GENERAL.**

The samples received were:—

Borough Engineer's Department	...	2
Medical Officer's	„	101
Police	... ..	5
Private	... ..	34
Water for hardness	... ..	1,079
Total	... ..	<u>1,221</u>

## BOROUGH ENGINEER'S DEPARTMENT.

The two articles submitted were samples of disinfectants supplied by contract, and one sample was not according to specification.

## MEDICAL OFFICER'S DEPARTMENT.

These were all samples of water.

The water from the Corporation Works at Otterbourne, the South Hants Company's Works at Timsbury and Twyford, has been of the highest standard of purity on all occasions.

The water from the wells has been reported upon to the Medical Officer.

## POLICE.

The work for the police was of a special character, requiring the determination and constitution of two liquids, and required the attendance of the Analyst at the Police Court.

## PRIVATE.

The articles and other duties for private sources were:—

Beer	...	...	...	...	...	2
Boiler scale	...	...	...	...	...	1
Carnauba wax	...	...	...	...	...	1
Cement concrete	...	...	...	...	...	2
Court attendance (Newbury)	...	...	...	...	...	1
Cotton seed oil	...	...	...	...	...	6
Edible tallow	...	...	...	...	...	1
Magnesium sulphate	...	...	...	...	...	1
Mortar	...	...	...	...	...	1
Moss peat	...	...	...	...	...	1
Ointment	...	...	...	...	...	1
Paint	...	...	...	...	...	4
Slag wool	...	...	...	...	...	1
Soap solution	...	...	...	...	...	1
Substance found in milk	...	...	...	...	...	1
Urine	...	...	...	...	...	1
Water	...	...	...	...	...	8
						—
						34
						—

## WATER FOR HARDNESS.

The softening for the year has been very much less than in previous years, being suspended for the greater part of the year at Otterbourne, and to a much less extent by the South Hants Waterworks Co., at Twyford and Timsbury.

## SUMMARY OF HARDNESS FOR THE YEAR. 1915.

Source.		Hardness.		
		Highest.	Lowest.	Average.
Otterbourne—Oxford Avenue	...	19.43°	3.31°	11.51°
South Hants—Bitterne Park...	...	17.25°	3.28°	7.99°
„ Albany Road...	...	20.60°	7.66°	10.64°

	£	s.	d.
Fees received for the year ending Dec. 31, 1915 ...	53	17	3
Fees outstanding on Dec. 31, 1915 ...	8	1	0

## SUMMARY OF WORK FOR THE YEAR 1915.

Food and Drugs ...	522
Public Health Regulations ...	18
Rag Flock Act... ..	13
General ... ..	1,291
Total ... ..	<u>1,844</u>

I am, Gentlemen,

Your Obedient Servant,

J. BRIERLEY.

Public Analyst.



